

## **ANNEXURE I**

### **Course Content:**

#### **UNIT I      Software Development Process (Agile & Scrum)**

Software Lifecycle Models - SRS (Software Requirement Specification) - SPS (Software Project Scheduling) - GitHub (End to End Journey) - Project Management Frameworks like Scrum, Agile etc.

#### **UNIT II      Introduction to Development Frameworks**

Project Bucketing - Different Shades of Fullstack development - Angular.Js (Introduction) - Vue.Js (Introduction) - React.Js (Introduction) - React.Js - Components and Props - State and Lifecycle - Handling Events - Hooks & Forms

#### **UNIT III      Front End Development Framework & Tools**

Web client server architecture - HTML Structure Tags – Forms field - Bootstrap – React.Js - jQuery- ajax - Promises - API integration

#### **UNIT IV      Back End Development Frameworks & Tools**

API Development services - Express.Js -nNode.js – mongoDB - Manual Authentication using JWT, Passport.Js etc

#### **UNIT V      Full Stack Application Development and Deployment in Cloud**

##### **(Web, Mobile)**

Computer Networking - Basic Linux Commands - Cloud hosting using AWS - DevOps

## ANNEXURE II

### USE CASES

#### 1. E-Commerce Website

An e-commerce website or app is one of the best full-stack development projects you can practice at the advanced level. It is a vast project involving front and back-end technologies and database knowledge for efficient execution and implementation. The project takes time and effort because you must maintain a huge database with multiple product categories and prices.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the accuracy of the Items selected.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the articles, especially for those who may have difficulty physically going to market to purchase some.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered items are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the buyer seller Journey and reduce the time and resources required to complete the process
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for aligning the E-commerce web page at one place with proper categorisation with the help of development scripting.

**Task 2:** Enable the data with the customer manifestation to enrout the requisite web development with the help of suitable programming language.

**Task 3:** Design the web server to engage with the operating system user is using.

**Task 4:** Develop a system which showcases the inserted result on the ground of inputs user made over the webpage.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## **2. Video Conferencing Website and Application**

You can try your hands on the video conferencing website and application projects and help develop features like textual chatting, audio-video interactions, video recording, etc. The project requires you to implement your ideas and ensure a creative application or website.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the accuracy of the time-zones according to the countries.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to plan their meetings, especially for those who may have difficulty physically going to meet them in person.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the caller & receiver Journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as registration is verified electronically.

**Task 1:** Develop the framework for creating the video conferencing application/website with the project management tools like JIRA & Trello.

**Task 2:** Enable the data with the system control of version based servers like GIT & Grunt

**Task 3:** Design the database server to resemble the implementation of MongoDB, MySQL etc.

**Task 4:** Develop a frontend framework which showcases the inserted result JQuery, Javascript and HTML.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

### **3. Social Media Website and Application**

The present-day world revolves around social media, and we already use many websites and applications. You can try your hands on an efficient full-stack project and develop a social media app or website with unique features to attract users.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the legitimacy of the users onboarded
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to add, remove, post etc. , especially for those who may have difficulty expressing their well-being in terms of words. Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered people are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the mutual interaction between two or more individuals and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the social media application/website with the proper implementation of web technologies.

**Task 2:** Enable and enhance the data with the system control of version based servers i.e MySQL & others

**Task 3:** Build and Nourish the database server to resemble the implementation of NoSql.

**Task 4:** Design a unique frontend framework which showcases the valued results with the use of Express JS & IONIC

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

#### **4. Content Management Tool and System**

Content Management Tool or System is a significant factor that plays a crucial role in creating blogs. You can use the full stack development items and other drag-and-drop interfaces to create a web page that helps you add text, images, videos, and other elements required to create a blog.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the accuracy of the articles written.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the articles, especially for those who may have difficulty physically going to market to purchase books.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more enriching, as all the written articles are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the traction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the content management website using the tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite & NOSql etc.

**Task 4:** Develop a frontend framework which showcases the inserted result with Express JS & IONIC

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## **5. Project Management Tool**

A project management tool is one of the toughest full-stack projects and requires many features for proper execution. The project includes a framework of social media sites where users can communicate with one another. The users also get the functionality to assign tasks to others and comment on the dashboard at their convenience.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the basics of the projects and their guidelines.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for users to select the project, especially for those who may have difficulty physically going on- site or doing remote work.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the user & UI Interaction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the project management application/website with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 6. To-Do List Projects

A to-do list is one of the simplest and best full-stack projects for beginners. You can create a to-do list efficiently with the feature to add items to the list. You can also provide functionalities to move content from the list after completing the task. The project will help you improve your front-end development skills and learn crucial database operations.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the time & task aligned.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select their time & manually design their planner especially for those who usually are not able to manage their time efficiently.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the day to day activities of the user and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the To-Do List Project management application/website with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the To-Do List Project.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the To-Do List Project.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 7. Chat Application and Website

Everyone chats with their family members and friends daily, and because of this, chatting applications have become an inevitable part of our lives. Chatting apps are one of the best full-stack beginner projects. You can create a chat application or website to serve the purpose of individual or group chats between networks.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and reply instantly.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to chat & connect especially for those who may have difficulty physically connecting with people.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the users Journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the Chat application/website with the project management tools like Java & kotlin



**Task 2:** Enable the data with the system control of version based servers like SQL for creating the Chat application/website.

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the Chat application/website.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the Chat application/website.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 8. Portfolio Website

Developers build portfolio websites as full-stack developer sample projects to showcase their skills and impress clients. As a student or professional learning web development, you must practice making portfolio websites to gain knowledge and experience in efficient front-end web development technology.

### **Learning outcome:**

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the accuracy of the portfolios selected.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the portfolios.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all the created portfolios are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the buyer seller Journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the portfolio website with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the portfolio website.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the portfolio website.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 9. Blog Website and Application

A blog website allows users to opine their thoughts and comment on anything and everything. You can make a creative website or application using full-stack technology and take inspiration from other blogs. Ensure that you add proper authentication features so individuals with valid credentials can log in to the platform.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the accuracy of the articles written.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the articles, especially for those who may have difficulty physically going to market to purchase books.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more enriching, as all the written articles are recorded and verified on a publicly-available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the traction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the blogging website with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for creating the blogging website.

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the blogging website.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the blogging website.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 10. Application For Grocery Delivery

A grocery delivery website or application is among the best projects for full-stack developers to showcase their talent and skills. You can learn multiple factors related to large-scale full-stack apps or websites by making the grocery delivery application project. It involves back-end knowledge and helps you excel in making major projects in the future.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily select and verify the accuracy of the Items selected.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the articles, especially for those who may have difficulty physically going to market to purchase some.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered items are recorded and verified on a publicly-available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the buyer seller Journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the grocery delivery application with the project management tools like Java & kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for creating the grocery delivery application.

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the grocery delivery application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the grocery delivery application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 11. Food Delivery Website and Application

A food delivery website or application is slightly different from grocery delivery. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making food delivery websites or applications.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the accuracy of the Items selected.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the dishes, especially for those who may have difficulty physically going to market to purchase some.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered items are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the buyer seller Journey and reduce the time and resources required to complete the process.

- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the food delivery application with the project management tools like Java & kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the food delivery application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the food delivery application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 12. Workout Tracker Application

A workout tracking website or application is slightly different from a to-do project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making workout tracking applications.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the accuracy of the inputs made.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the workout style especially for those who may have difficulty to track their workout routine.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all workout style & patterns are recorded and verified on a publicly- available ledger.

- Develop a full stack-based system that can offer greater efficiency and can streamline the UI & user Interaction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the workout tracking application with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for creating the workout tracker application

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the workout tracker application

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the workout tracker application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 13. Calendar Scheduler Application

A calendar scheduler application is slightly different from a to-do project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making calendar scheduler applications.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the time & task aligned.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select their time & manually design their planner especially for those who usually are not able to manage their time efficiently.

- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the day to day activities of the user and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task1:** Develop the framework for creating the calendar scheduler application with the project management tools like Java & kotlin.

**Task 2:** Enable the data with the system control of version based servers like SQL for creating the calendar scheduler application

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the calendar scheduler application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the calendar scheduler application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 14. Money Transfer Application

A Money Transfer application is slightly different from a chat project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making money transfer applications.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily check and verify the accuracy of the payments made.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to make the transactions, especially for

those who may have difficulty physically going in-person to do the needful.

- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the Journey between receiver sender and the bank and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the money transfer application with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for creating the money transfer application

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating the money transfer application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for creating the money transfer application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 15. Internet Banking Application and Website

An Internet Banking application and website is slightly different from a money transfer project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making internet banking applications and websites.

### **Learning outcome:**

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily check and verify the accuracy of the payments made.



- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to make the transactions, especially for those who may have difficulty physically going in-person to do the needful.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the Journey between receiver sender and the bank and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the internet banking application with the project management tools like Java & kotlin for Internet banking application

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for Internet banking application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for Internet banking application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## **16. Astrology Application and Website**

An Astrology application and website is slightly different from a social media project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making astrology applications and websites.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front-end techniques, as well as the visibility to easily react and verify the predictions made.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the sunshine.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly-available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the UI & user Interaction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the astrology application with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for creating astrology application

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for creating astrology applications.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 17. Horoscope Application and Website

A Horoscope application and website is slightly different from a social media project framework. However, it also works on the same grounds as the latter and may require full-stack development. You can practice and improve your front- and back-end development skills when making horoscope applications and websites.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the predictions made.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the sunshine.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the UI & user Interaction and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the horoscope application with the project management tools like Java & kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for horoscope application and website

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for horoscope application and website

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for horoscope application and website

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## 18. Stock Inventory Application

Stock Inventory Tool or System is a significant factor that plays a crucial role in managing the stock reviewed. You can use the full stack development items and other drag-and-drop interfaces to create a web page that helps you add text, images, videos, and other elements required to create an Inventory.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the accuracy of the items selected.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to select the articles, especially for those who may have difficulty physically maintaining their sale & purchase some.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered items are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the Inventory & user Journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the Stock Inventory application with the project management tools like Java & Kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for stock inventory application

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for developing the application

**Task 5:** Implement industry specific data modeling frameworks to enhance the backend specification like Ruby on rails, Laravel for stock inventory application

## 19. News Media Application

News Media application is a significant factor that plays a crucial role in keeping yourself updated. You can use the full stack development items and other drag-and-drop interfaces to create a web page that helps you add text,

images, videos, and other elements required to create a news media application.

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily react and verify the legitimacy of the users onboarded
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to add, remove, post etc. , especially for those who may have difficulty expressing their well-being in terms of words.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered people are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the mutual interaction between two or more individuals and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the news media application with the project management tools like Java & kotlin for developing the application.

**Task 2:** Enable the data with the system control of version based servers like SQL

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite for the application.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for developing the application.

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

## **20. Job Search Application**

Job Search application is a significant factor that plays a crucial role in keeping yourself updated. You can use the full stack development items and

other drag-and-drop interfaces to create a web page that helps you add text, images, videos, and other elements required to create a job search portal

Learning outcome:

- Develop a full stack-based system that can offer high-end webpage through the use of front- end techniques, as well as the visibility to easily post and verify the accuracy of the candidates.
- Develop a full stack-based system that can offer Improved accessibility and can make it easier for people to apply for the jobs, especially for those who may have difficulty physically hustling for applying resumes.
- Develop a full stack-based system that can offer enhanced transparency and can make the user journey more transparent, as all registered users are recorded and verified on a publicly- available ledger.
- Develop a full stack-based system that can offer greater efficiency and can streamline the candidate and recruiter journey and reduce the time and resources required to complete the process.
- Develop a full stack-based system that can offer enhanced accuracy and can reduce the risk of faults and errors in the Journey, as the registration is recorded and verified electronically.

**Task 1:** Develop the framework for creating the job search portal with the project management tools like Java & kotlin

**Task 2:** Enable the data with the system control of version based servers like SQL for developing job search application

**Task 3:** Design the database server to resemble the implementation of MongoDB, SQLite.

**Task 4:** Develop a frontend framework which showcases the inserted result with IONIC for the application

**Task 5:** Implement industry specific hosting using cloud at AWS, to ensure the microservices functionality and deployment.

### ANNEXURE III

#### Student Assessment Plan:

Each of the above-mentioned test projects will be divided into at least 5 tasks by the training partner for each specific institution. Such tasks will be jointly evaluated by the faculty and the training partner and the following weightage is to be followed.

- 70% weightage to the external practical assessment.
- 30% weightage to the internal assessment.

#### Final Test Project/External Assessment Plan:

The Final Test Project will be chosen from the list given above, jointly by the college faculty and the Training Partner. The Final Test Project will be assessed on the following tasks, for 100 marks:

<b>COURSE ASSESSMENT RUBRICS (TOTAL MARKS: 100)</b>				
<b>ASSESSMENT CRITERIA</b>	<b>DESCRIBE THE CRITERIA OF THE BELOW CATEGORY PERFORMANCE</b>			<b>TOTAL MARKS</b>
	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>	
Implement the software lifecycle models	3	5	8	10
Implementing the frameworks	1	2	4	10
Implementing the frontend technologies to build client architecture, to integrate APIs using react js.	6	12	18	15
Implementing the tech stack to build the back-end services.	1	2	4	20
Hosting & deployment	3	5	8	25

MCQ-based assessment 20 Questions				20
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