

Single CW component

Four files

Two github repositories

Live API on Codio

Presentation Details : Thejaswini (Stock Inventory)

1. **A six slide presentation for the management team discussing app types and choices.**
Aimed at the management team Discuss and compare the pros and cons of different types of app Native, cross-platform native, hybrid, PWA, etc. Informed choice of which one is best suited for your topic and why. Then a discussion of the frameworks that could be used to build it Informed choice with clear justification. This should be uploaded in PDF format and called TECHNOLOGY.PDF. A clear explanation of the choice of platform, a detailed analysis of the criteria used in its selection including staff recruitment, skills and training options.
2. **UI and Functionality (ILO2 and ILO3) :** A 5 minute screencast in 720P resolution or higher, encoded as MP4. The file should be called APP.MP4. The screencast should demonstrate the functionality as listed in the topic descriptor. Screencasts covering the working app or demonstrating how your API worked. High-quality design with responsive layout that is optimised for different screen sizes without text or images getting too small or text and form fields getting too wide.
3. **API Design (ILO 4) :** A 5 minute screencast in 720p resolution or higher encoded as MP4. The file should be called API.MP4. The screencast should show the Postman API testing tool being used to demonstrate the routes and methods implemented in your API and should clearly show all request and response headers and body data.
4. **Dev Tools (ILO 5) :** An illustrated A4 guide consisting of up to five (5) pages uploaded as a PDF document called TOOLS.PDF. Comparison of 2 IDEs demonstrated as screencast. Steps need to deploy a PWA and Android app. Methods, collections and resources and URLs correctly implemented. Errors correctly handled with valid status codes and error messages.
5. **A five page detailed onboarding guide for the development team showing tools and setup processes including how to generate a web app and an Android app using Flutter.** This is Aimed at new members of the team Short guide with screenshots: How to install the

required tools and software and their use How to access the current app code (GitHub)
How to build and deploy the app: SPA/PWA Android or iOS. The company will be taking on a small team of developers to build and maintain the app. Assuming the chosen platform is Flutter, you will produce a detailed onboarding guide that will be given to all team members. This will describe the different tools that can be used to develop the app, giving pros and cons as well as instructions on how to set up their workstation, navigate and use the preferred IDE as well as how to generate a website and a native app. A well-illustrated guide covering installation, setup, app usage plus code access and steps needed to produce and test a SPA/PWA and a native app including the purpose of each step.

Other details

A Flutter app to satisfy the customer requirements. All code must be available on the University GitHub server in two private repositories inside the 7052CEM-2122JANMAY organisation with each repository using the correct naming convention. The working API code must be provided in the API Codio box where it will be studied and run as part of the assessment. All screencasts must be uploaded using the MP4 format. Files provided in different formats will not be accepted.

A secure data management API deployed to the cloud. (Codio), design, build and deploy a secure cloud-based data management API complete with online documentation. The API must be built inside the supplied Codio box, using the Dart language and be deployed to the cloud. The changes must be pushed to GitHub every day you work on the project.

The API

You will need to build an API so that the app can share data

Needs to be built using Dart needs to support the features of your app

Needs to be secure

Should be deployed to the cloud (either via Codio or another cloud provider)

Cloud URL needs to be included in the README file.

The App

This needs to be developed using Flutter

Can be demonstrated as a SPA

Needs to support the required functionality

The UI needs to support Material Design principles.