

Project Planning Phase Technology Stack

Date	23rd October 2023
Team Members	Guddanti Jyotish Kumarr - 21BCE9025 Ardhala Yamini Padmavathi - 21BCE9240 Ayyapusetty Harshini Kumari - 21BCE9222 Gudla Deepak - 21BCE8456
Project Name	Snack Ordering Application
Maximum Marks	4 Marks

Technological Architecture

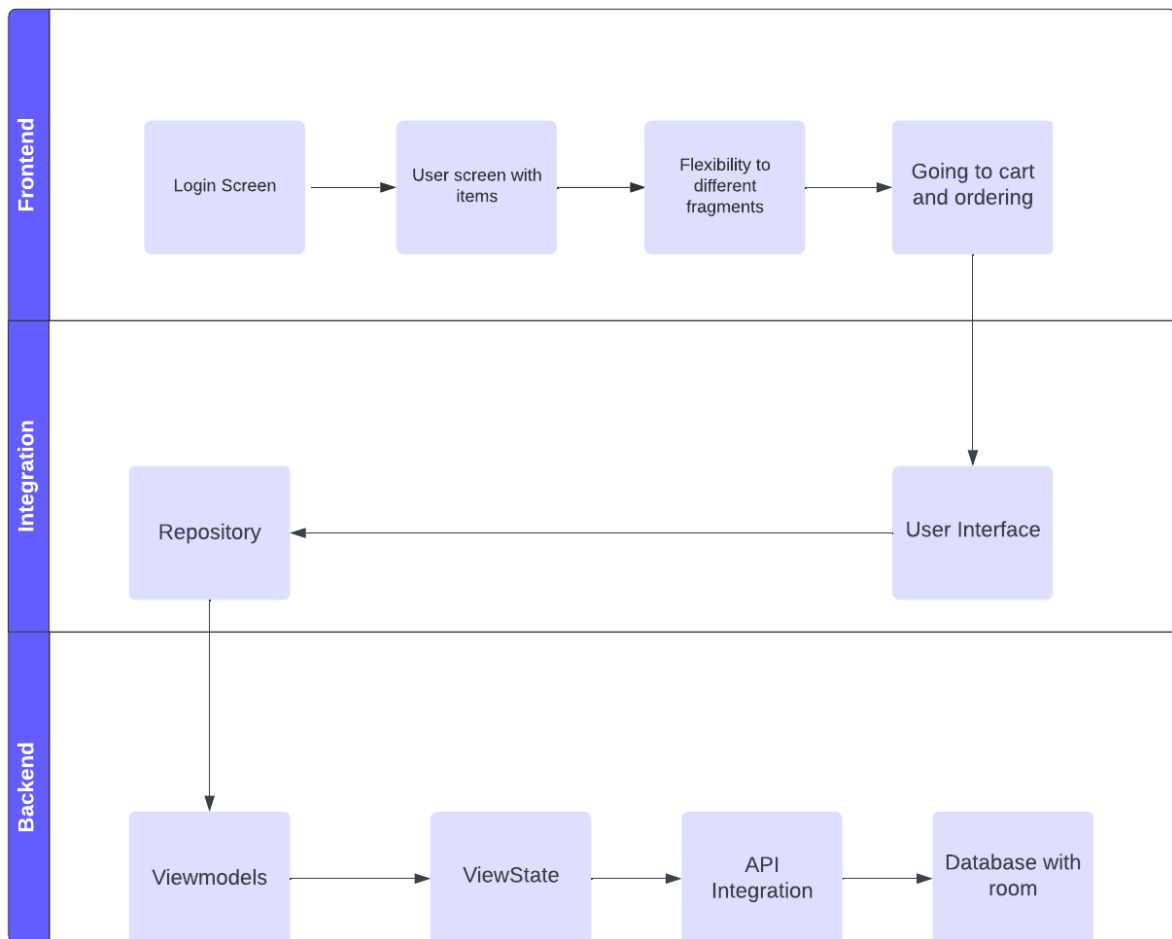


Table - 1 : Components and Technologies

Sl no.	Component	Description	Technology
1	Login Screen	a well-designed login screen balances user convenience with security measures to create a positive and secure authentication experience. The goal is to make it easy for legitimate users to access their accounts while protecting against unauthorized access.	Composable jetpack components with kotlin
2	User Interface	the UI serves as the bridge between users and the functionality of an application. A well-designed UI enhances user experience, making the interaction with the software intuitive, efficient, and enjoyable.	Kotlin
3	Repository	In the Model-View-ViewModel (MVVM) architecture, "ViewState" usually refers to an object that holds the UI-related data for a particular screen or component. The purpose of the ViewState is to separate the concerns of the UI from the underlying business logic or data source.	Kotlin

4	Viewmodels	The ViewModel is a part of the Android Architecture Components and is used to store and manage UI-related data. It survives configuration changes (like screen rotations) and can be shared between different UI components. The ViewModel is responsible for interacting with the backend and providing data to the Compose UI.	Kotlin
5	ViewState	In Jetpack Compose, you use the state variable to represent the state of your UI components. When the state changes, Compose automatically recomposes the affected parts of the UI. State variables are often used to represent data retrieved from the backend.	Kotlin
6	API Integration	Use libraries like Retrofit or the built-in HttpURLConnection to make network requests to your backend API. Retrofit is a popular choice for making API calls as it simplifies the process of defining and handling API requests.	Google console

Table - 2 : Application characteristics

SI No.	Characteristics	Description	Technology
1	Open Source frameworks	Utilisation of open source frameworks in the project	Kotlin - jetpack compose
2	Security Implementations	Implementation of security and access controls	Kotlin - jetpack security
3	Scalable Architecture	Architectural design that justifies scalability	Kotlin - jetpack compose
4	Availability	Ensuring high availability of the application	Kotlin