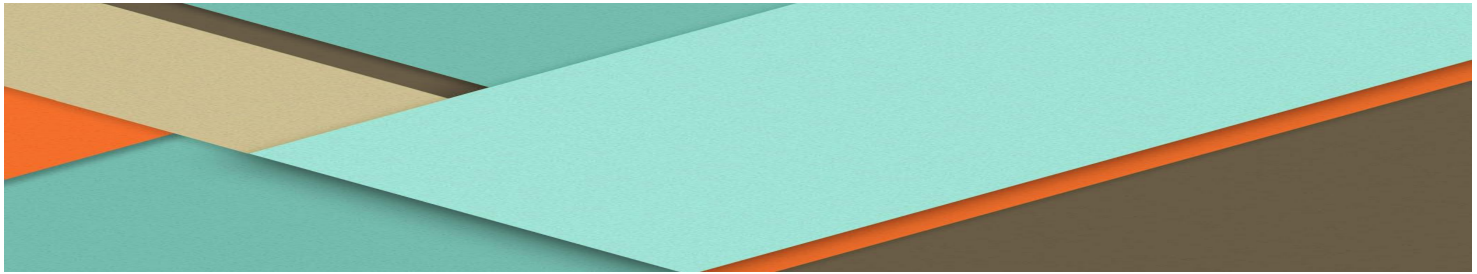

System Design

10.01.2021

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Dream Team

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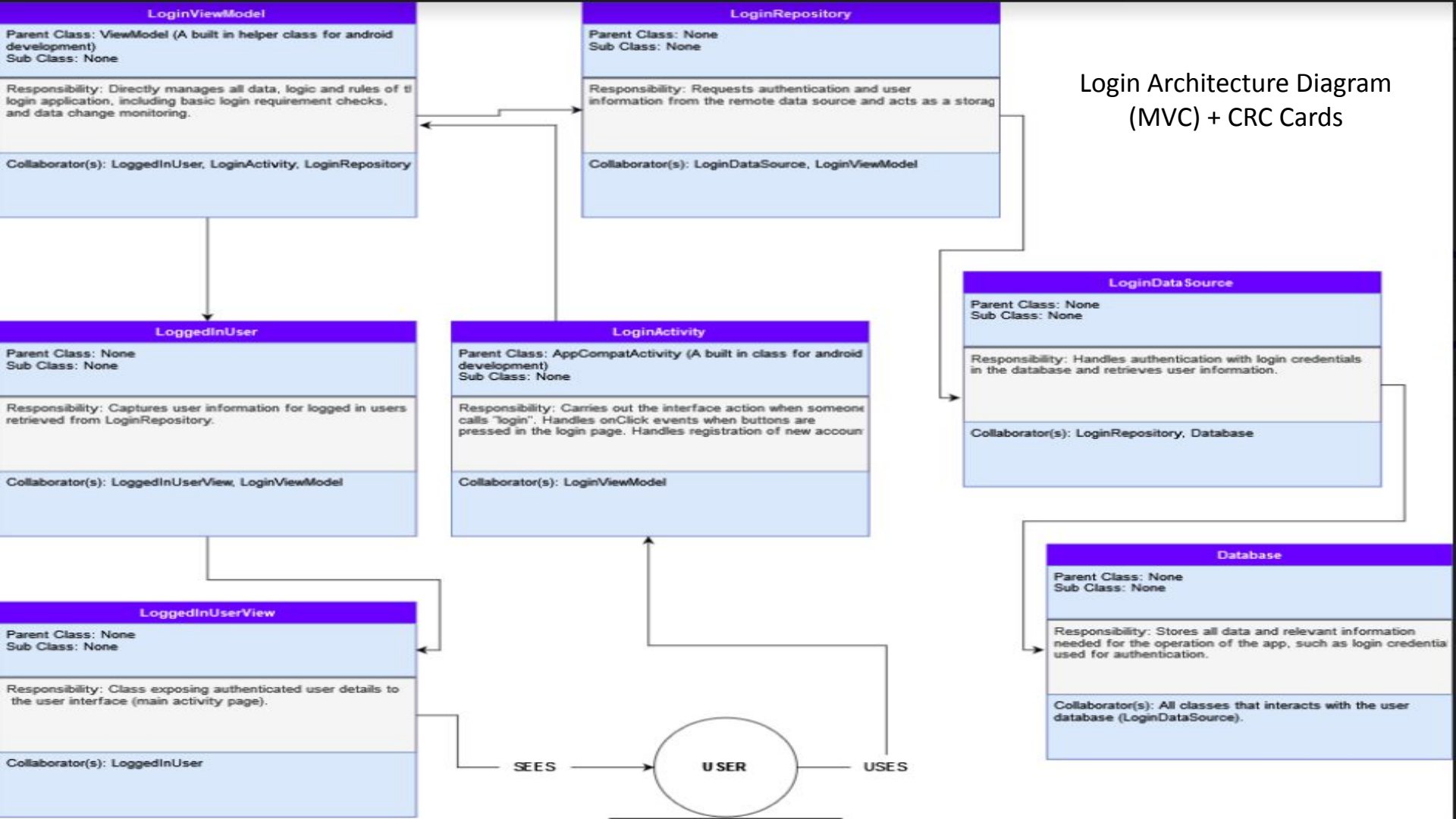
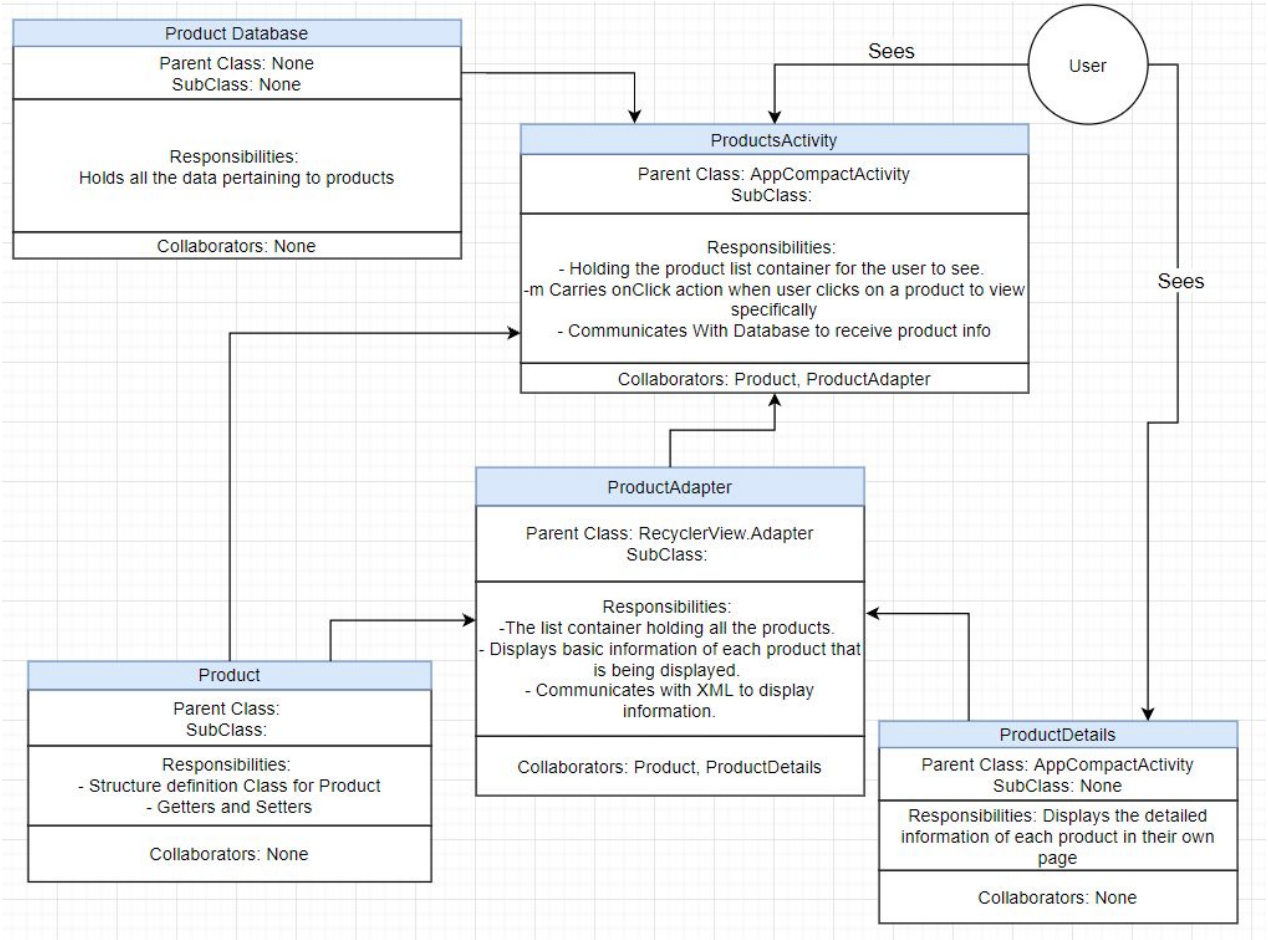
5. Profile Activity (DREAM -14) CRC Card + Software Architecture Diagram

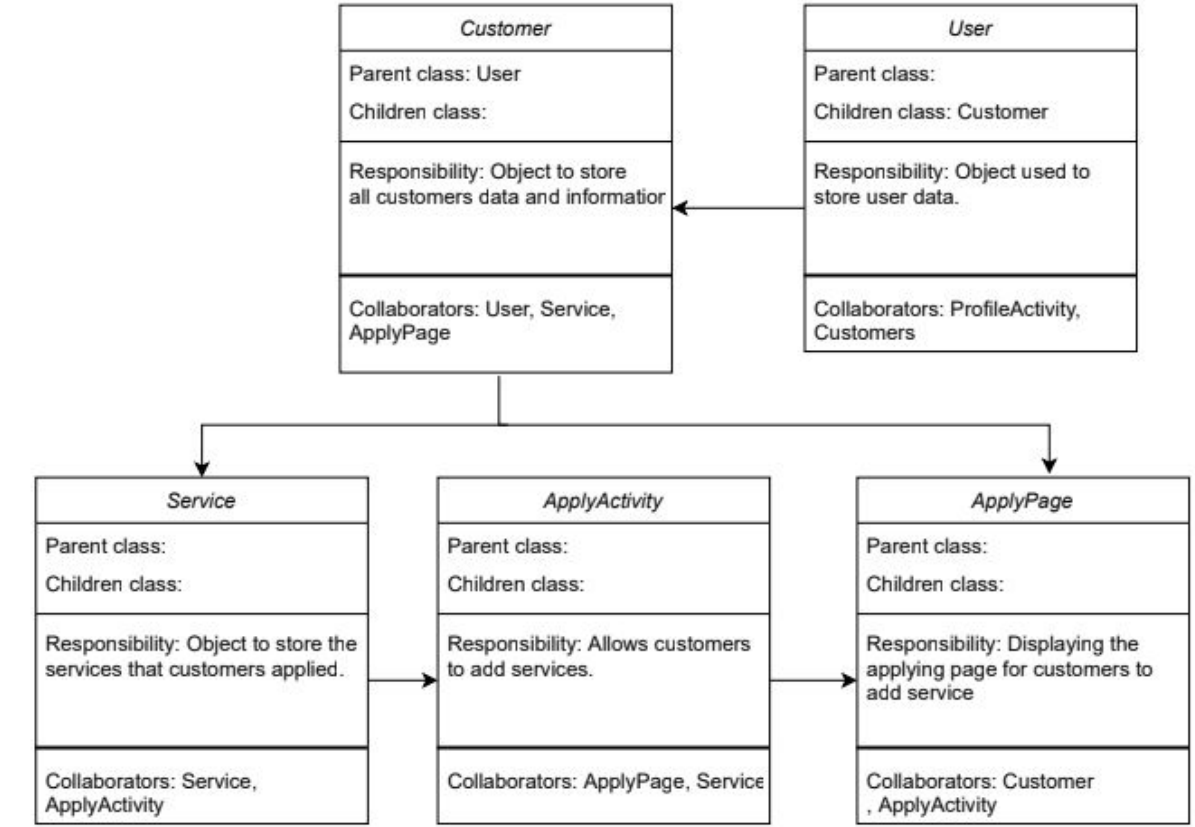
Note: MVC design for CRC cards & Architecture Diagrams


LoginViewModel
Parent Class: ViewModel (A built in helper class for android development)
Sub Class: None
Responsibility: Directly manages all data, logic and rules of tl login application, including basic login requirement checks, and data change monitoring.
Collaborator(s): LoggedInUser, LoginActivity, LoginRepository
LoginRepository
Parent Class: None
Sub Class: None
Responsibility: Requests authentication and user information from the remote data source and acts as a storag
Collaborator(s): LoginDataSource, LoginViewModel
Login Architecture Diagram (MVC) + CRC Cards
LoggedInUser
Parent Class: None
Sub Class: None
Responsibility: Captures user information for logged in users retrieved from LoginRepository.
Collaborator(s): LoggedInUserView, LoginViewModel
LoginActivity
Parent Class: AppCompatActivity (A built in class for android development)
Sub Class: None
Responsibility: Carries out the interface action when someone calls "login". Handles onClick events when buttons are pressed in the login page. Handles registration of new accoun
Collaborator(s): LoginViewModel
LoginDataSource
Parent Class: None
Sub Class: None
Responsibility: Handles authentication with login credentials in the database and retrieves user information.
Collaborator(s): LoginRepository, Database
Database
Parent Class: None
Sub Class: None
Responsibility: Stores all data and relevant information needed for the operation of the app, such as login credentia used for authentication.
Collaborator(s): All classes that interacts with the user database (LoginDataSource).
LoggedInUserView
Parent Class: None
Sub Class: None
Responsibility: Class exposing authenticated user details to the user interface (main activity page).
Collaborator(s): LoggedInUser
SEES
USER
USES

Dream 4: Product Class Diagram

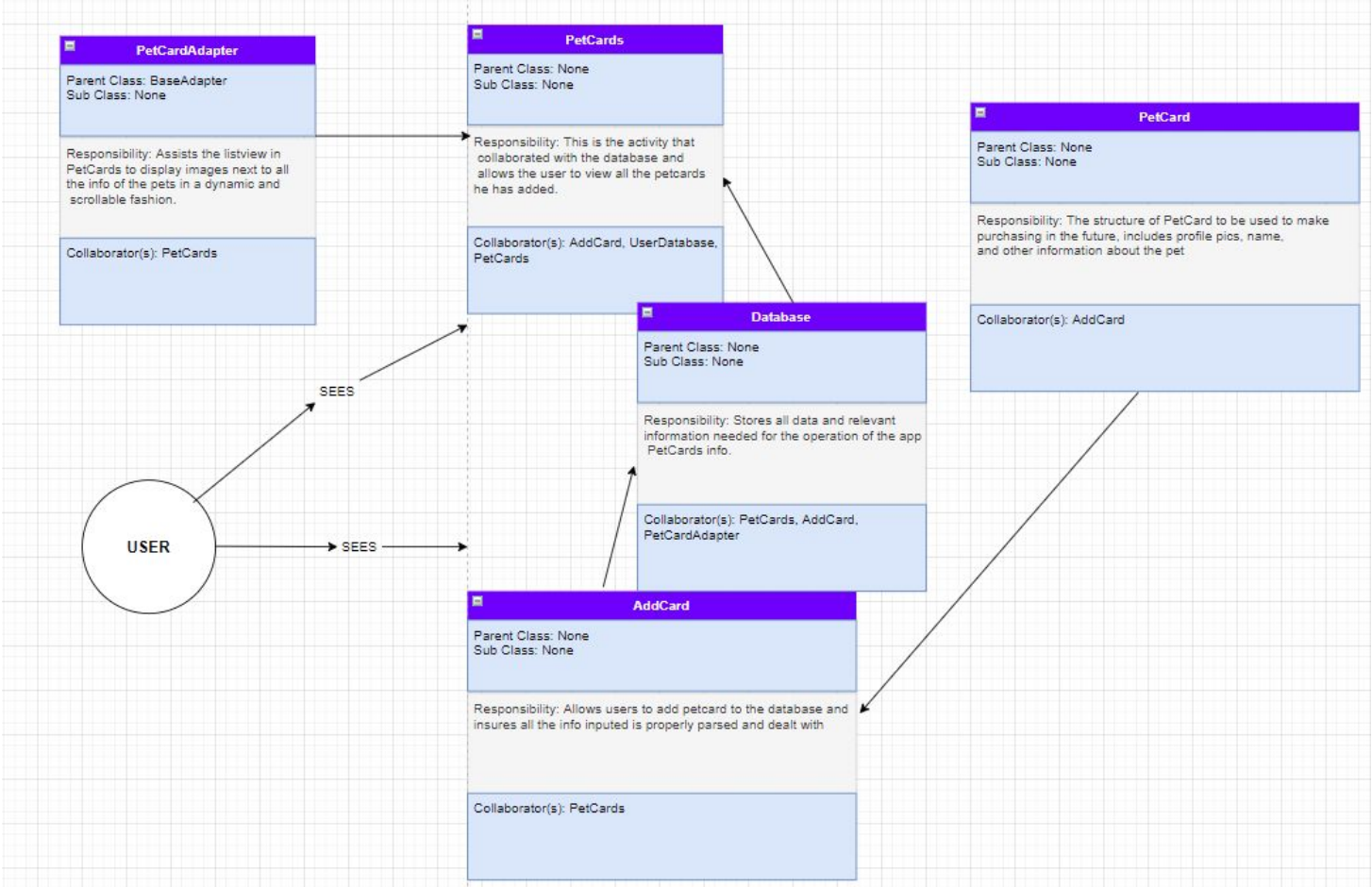
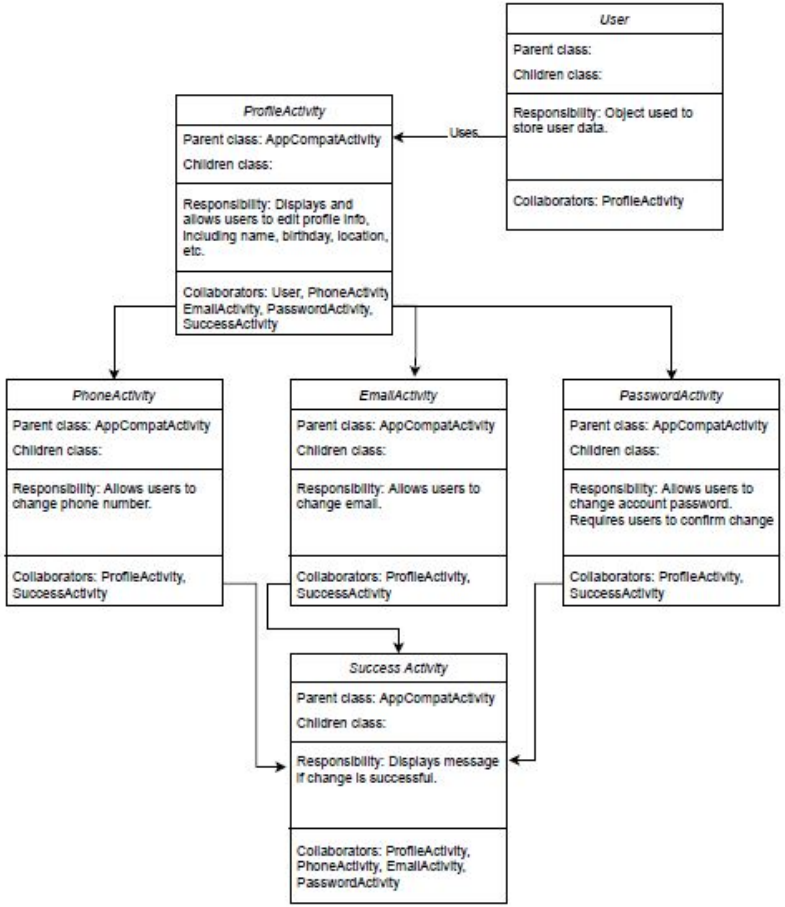


Service Application Architecture DREAM 6



DREAM 9

PetCard Architecture Diagram (MVC) + CRC Cards



Profile Architecture DREAM 14