

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	23-10-23
Team ID	Team-591299
Project Name	Depression a Common Mental Disorder
Maximum Marks	4

Technical Architecture:

Reference: <https://online.visual-paradigm.com/diagrams/templates/use-case-diagram/-online-therapy-platform-use-case-diagram/>

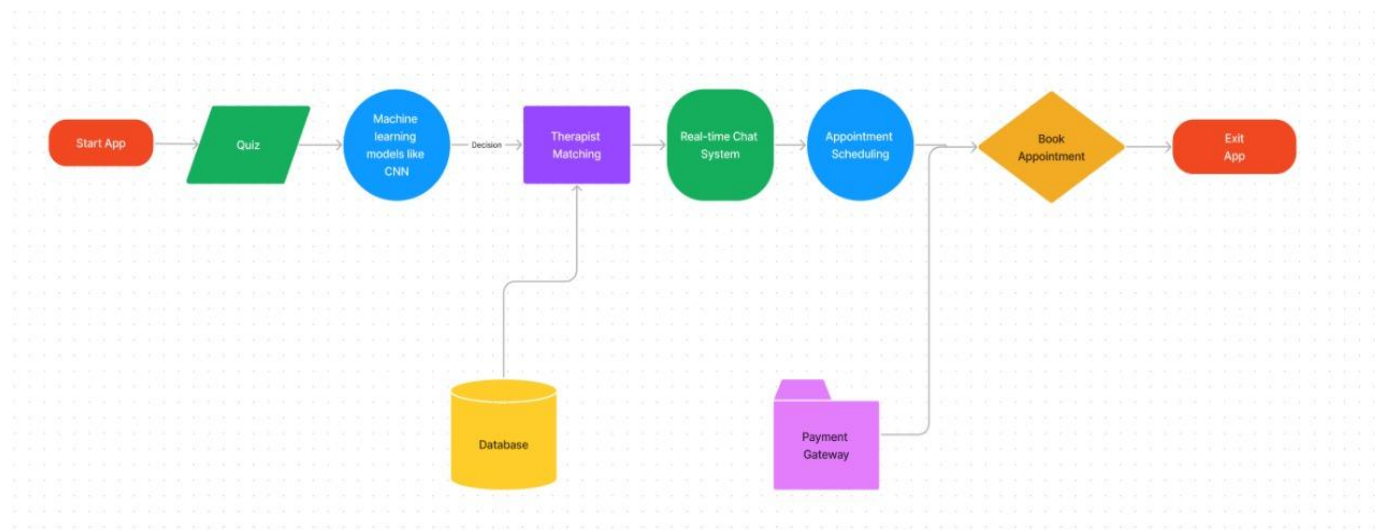


Table-1 : Components & Technologies:

S.No	Components	Descriptions	Technology
1.	User Interface	User interacts with application through Mobile app	Flutter,Android studio
2.	Application Logic-1	Logic for a process in the application	Dart
3.	Application Logic-2	Logic for a process in the application	Machine learning, MySQL, Tableau
4.	Database	Data Type, Configurations etc	MySQL, Kaggle
5.	File Storage	File storage requirements	Android studio, Google Colab or Local Filesystem
6.	External API-1	Purpose of External API used in the application	Chatbot system
7.	Machine Learning Model	Purpose of Machine Learning Model	CNN, Image classification system etc.
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local system

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Numpy, Pandas, Matplotlib, SQL, Dart	Google colab, , MySQL,Flutter, Android studio
2.	Scalable Architecture	Dart	Flutter
3.	Availability	Available on local storage system	Flutter or local storage system
4.	Performance	Accuracy of model and precision of CNN model	Machine learning

References:

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>

<https://c4model.com/>