# Project Design Phase - II
## Technology stack (Architecture & Stack)

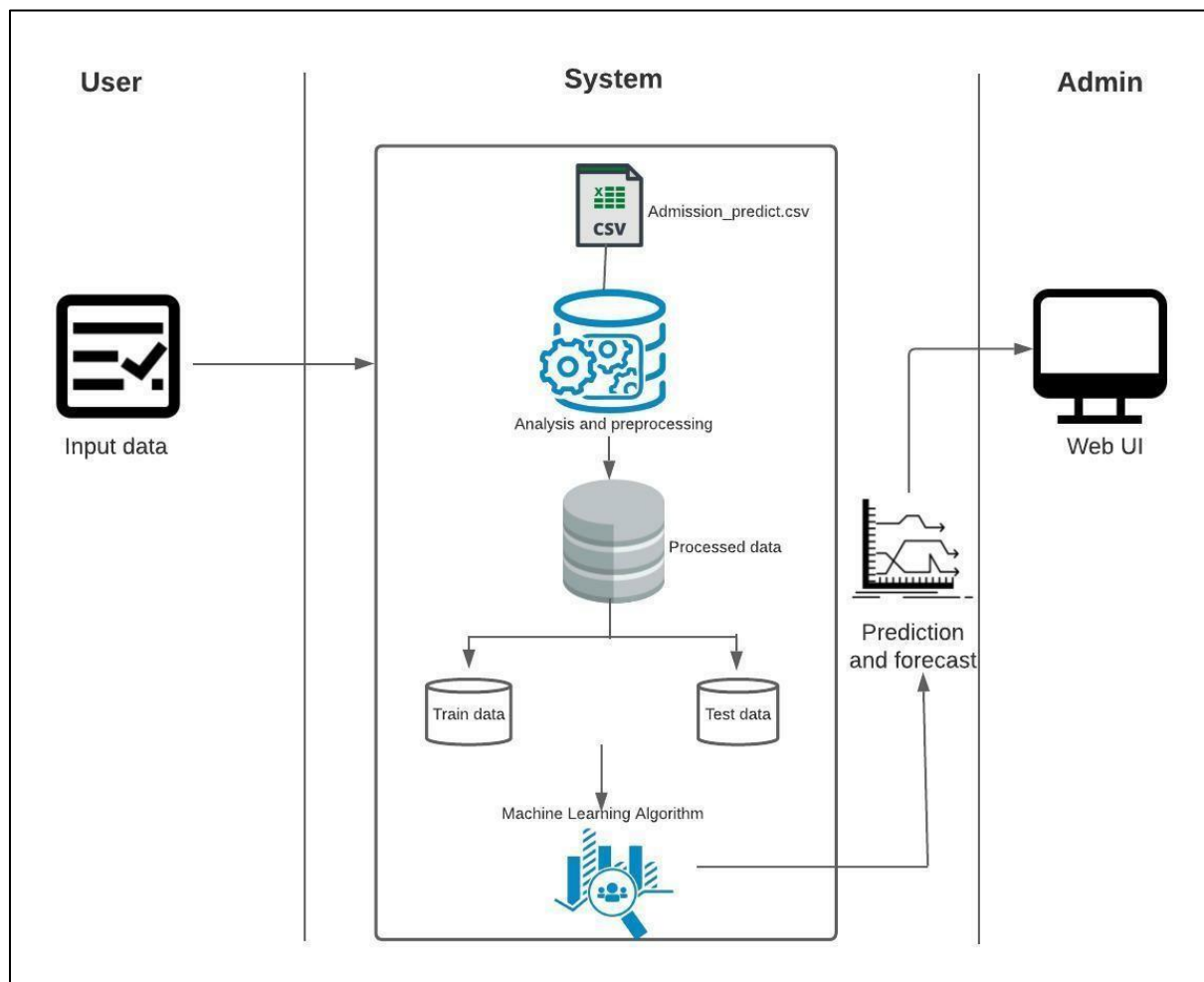| Date | 19 September 2022 |
|------|-------------------|
| Team ID | PNT2022TMID39283 |
| Project Name | Project-University Admit Eligibility Predictor |
| Maximum Marks | 4 Marks |

**Technical Architecture:**



**Table-1: Components and Technologies:**

| S.No | Component | Description | Technology |
|------|-----------|-------------|------------|
| 1. | User Interface | The user interacts with the application through a Web UI | HTML, CSS, Python, Flask |
| 2. | Application Logic-1 | Logic for collecting the input from the user | Python |

| 3. | Application Logic-2 | Integrating Machine Learning model with our application | Python |
|---|---|---|---|
| 4. | Database | Numeric data | MySQL |
| 5. | File Storage | To store files such as prediction report | Local Filesystem |
| 10. | Machine Learning Model | Predictive modelling is a mathematical process used to predict future events or outcomes by analysing patterns in a given set of input data. | Predictive Modelling |
| 11. | Infrastructure (Server) | Application Deployment on Local System<br>Local Server Configuration: Built-in Flask web server | Flask, Web server |

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|---|---|---|---|
| 1. | Open-Source Frameworks | Flask | Micro web framework with python |
| 2. | Security Implementations | Http authentication, Session based authentication | Flask security |
| 3. | Scalable Architecture | Size is everything, and Flask's status as a microframework means that you can use it to grow a tech project such as a web app incredibly quickly. Its simplicity of use and few dependencies enable it to run smoothly even as it scales up and up. | Flask |
| 4. | Availability | Higher compatibility with latest technologies and allows customization | Flask |
| 5. | Performance | Integrated support for unit testing.<br>● RESTful request dispatching.<br>● Uses Jinja templating.<br>● Support for secure cookies | Flask |