**Solution Architecture: Data & Control Flow**

● High-level system organization (all components of the system and the links among them)

The main components of the system will be the User Interface (Front End), the service layer and the Data layer. The front end will pass on commands by the means of HTTP requests/responses such as GET, POST etc. while the service layer will implement the required business logic in order to fetch/write data on to the database by the means of CRUD operations such as CREATE, READ.

● Flow of data through the system

From the user interface the users will be able to access/alter data in a database through a Rest API. The data will flow in JSON format for simpler processing.

MVC architecture will be the pattern of data flow in the app since the architecture provides the necessary clarity about data patterns.

● Storage of data at various points in the system (temporary and permanent)

The data will be mainly stored in MySql database.

● Flow of control through the system

Based on the different actions of the users’ end, events will be handled and the required messages will be sent for the Rest API will then decide what should be done next.