**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

| Date | 6 March 2025 |
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| Team ID | SWTID1741158983154699 |
| Project Name | CookBook: Your Virtual Kitchen Assistant |
| Team Leader | Tamilselvi B |
| Team Member’s | Sowmiya M  Srimathi M  Valarmathi P |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

**Table-1 : Components & Technologies:**

| **S.No** | **Component** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | User Interface | Recipe listing, search, and user interactions | HTML, CSS, React.js, Bootstrap |
|  | Application Logic | Managing recipe data, user login, and registration forms | React.js, JavaScript |
|  | External API Integration | Fetching recipe information and nutrition data | ThemealsDB API |
|  | UI Design | Responsive and interactive layout | Bootstrap, CSS Grid, Flexbox |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | F Frontend frameworks for UI development | React.js, Node.js, Axios |
|  | Scalable Architecture | Securing API calls and access controls | HTTPS, API key authentication (RapidAPI) |