**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Project Name | FetalAI: USING MACHINE LEARNING TO  PREDICT AND MONITOR FETAL HEALTH |
| Maximum Marks | 4 Marks |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Technical Architecture:** |  | |  | | |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
| 1. | User Interface | User Interacts with webpage UI through system or mobile device | HTML, CSS,  JavaScript |
| 2. | User Explorers the FetalAI Webpage | Explore pages (about us, contact us, Analyse, Home page) | HTML, CSS,  JavaScript |
| 3. | User fill the Analyse form to do prediction | Fill new data for prediction | HTML form |
| 4. | Machine Learning Model | ML model used for prediction fetal health | Random  Forest |
| 5. | Database | Predicted value is saved into patient’s database | MySQL |
| 6. | Infrastructure | Application deployment on local system | Local |

**Table-2: Application Characteristics:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Characteristics** | **Description** | **Technology** |
| 1. | Open-source Frameworks | Bootstrap, Python Library | Python, HTML, CSS, JavaScript |
| 2. | Availability | Very low load on the webpage | Simple HTML Page |
| 3. | Performance | Responsive webpage to work on mobile and laptop seamlessly | Responsive CSS coding |
| 4. | Scalable Architecture | Number of input field can be increased by altering ML model | ML Modelling |