**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| --- | --- |
| Date | 10 March 2025 |
| Team ID | SWTID1741104969 |
| Project Name | RhythmicTunes: Your Melodic Companion |
| Maximum Marks | 2 Marks |
| Team Leader | Shahanaz Rizwana J |
| Team Members | Swathi N |
| Team Members | Sumathra S |
| Team Members | Keerthana S |

**Technical Architecture:**

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

**Example:** Rhythmic Tunes

**Reference:** [**https://open.spotify.com/**](https://open.spotify.com/)

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

| **S.No** | **Component** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | User Interface | Web-based interface for music streaming | HTML, CSS, JavaScript / React Js etc. |
|  | Application Logic-1 | Music streaming and metadata management | React js, Node js |
|  | Application Logic-2 | Playlist and user preference management | React js, Node js |
|  | Database | Stores Songs, playlists, and metadata | JSON Web Server |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, BootStrap, Tailwind CSS |
|  | Scalable Architecture | 3-tier architecture with RESTful APIs | Microservices |

**References:**

[**React.js Documentation**](https://react.dev/)

[**Node js Best Practice**](https://nodejs.org/en/learn/getting-started/introduction-to-nodejs)

[**JSON Web Server Referance**](https://www.npmjs.com/package/json-server)

[**https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d**](https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d)