ARD For Music Player App

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Issue: The issue for this music player application is deciding on which technology stack is used for the applications back end.

Decision: The backend architecture of the Music Player App will include the following

Status: Approved

Group: Backend Architecture

Assumptions:

* The backend needs to support user registration, user login, music library management and playlist management
* The backend needs to be scalable to handle potential growth in users
* The backend need to ensure data security and privacy for users data

Constraints:

* Time and resources may impact the choice of backend
* Backend should be capable of being integrated with the selected NoSQL database
* Backend technologies should align with the selected technology stack

Positions:

* Use Node.js for backend
* Use MongoDB as the NoSQL database for user storage

Argument:

* Node.js is the selected backend technology because of its event-driven nature and is good at handling real-time operations. Node.js is compatible with front-end frameworks such as Xamarin providing smooth integration
* MongoDB is selected as the NoSQL database because of capabilities in handling unstructured data. MongaDB is scalable therefore it can handle future user growth

Implications: The use of Node.js and MongoDB requires a deep understanding for smooth development and long term maintenance

Related decisions: None

Related requirements: Make sure the backend is responsive and scalable to support user activities and data.

Related artifacts: None created

Related principles: These decisions align with the principle of selecting technologies that promote scalability, performance and smooth development

Notes: None