

CloudTunes

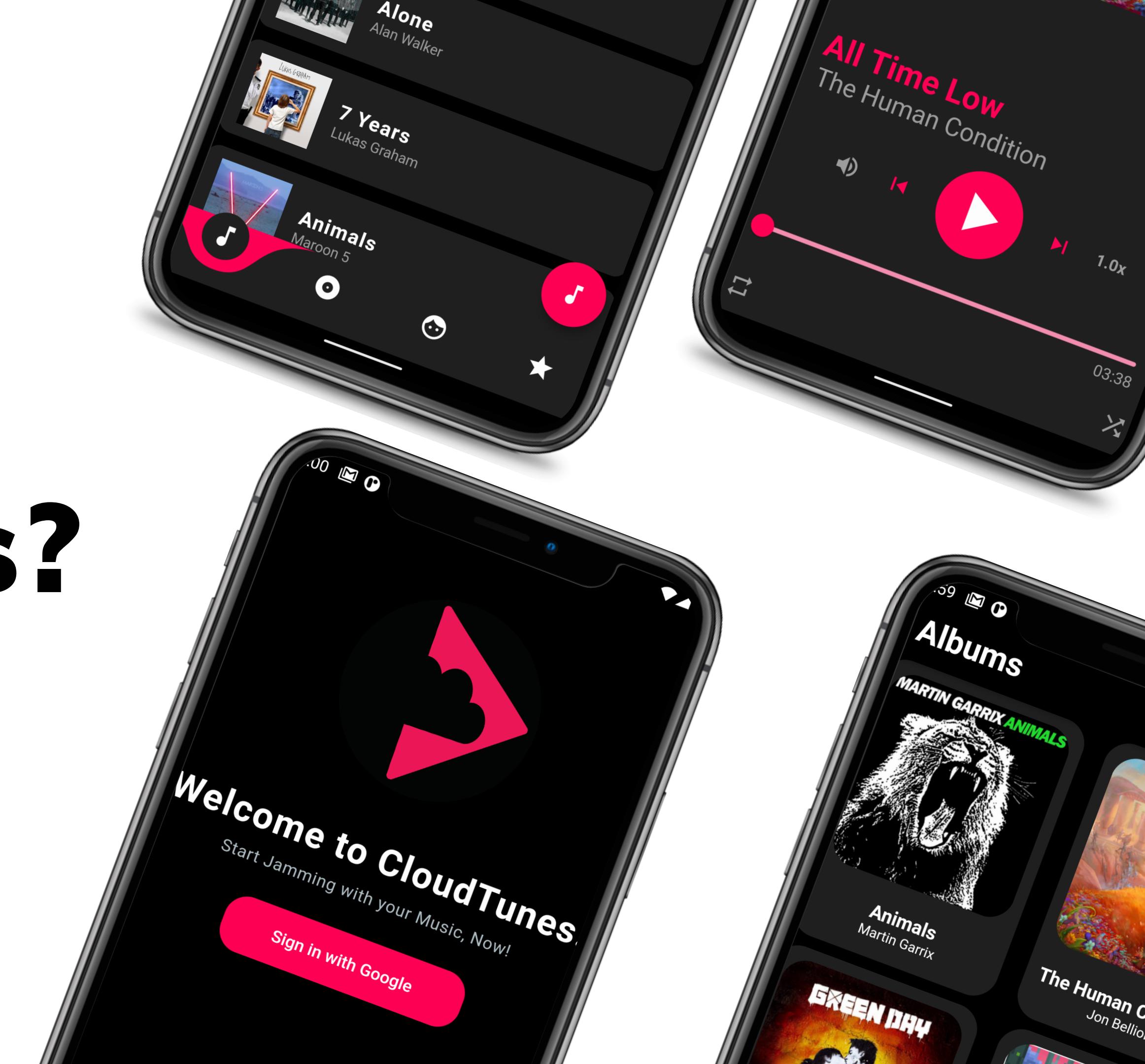
CSD 301
Software Engineering



Prakhar Bhasin - 1810110167
Apoorva Nautiyal - 1810110040
Kirtik Singh - 1810110109

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What is CloudTunes?



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Motivation

There is no music streaming service that can play multimedia files from commonly used cloud services. We hardly find any app that allows dropping music files in your free Google Drive storage and being able to access it anywhere with unlimited cross-device access. Cloud storage services have not been used by major music streaming company . It is more secure and convenient compared to other forms of storage.

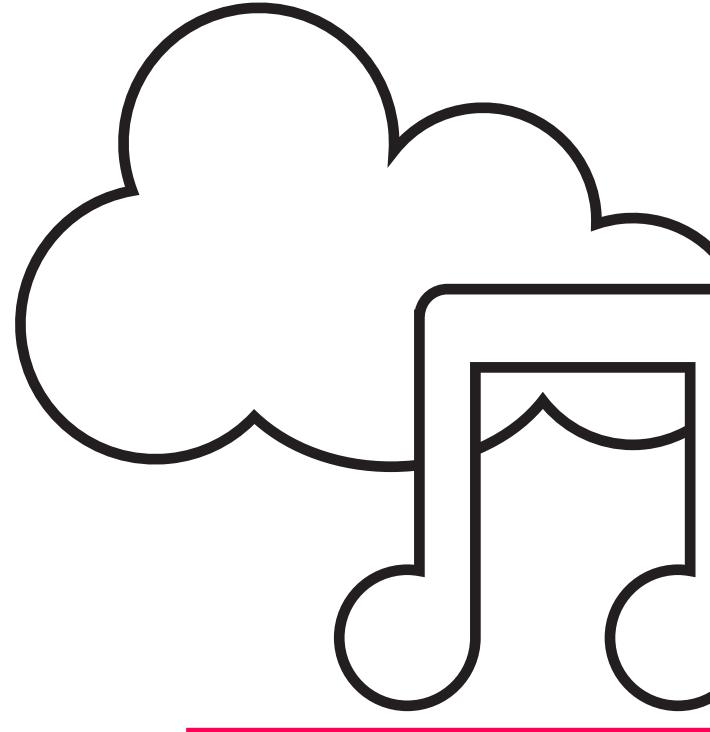
Product Scope



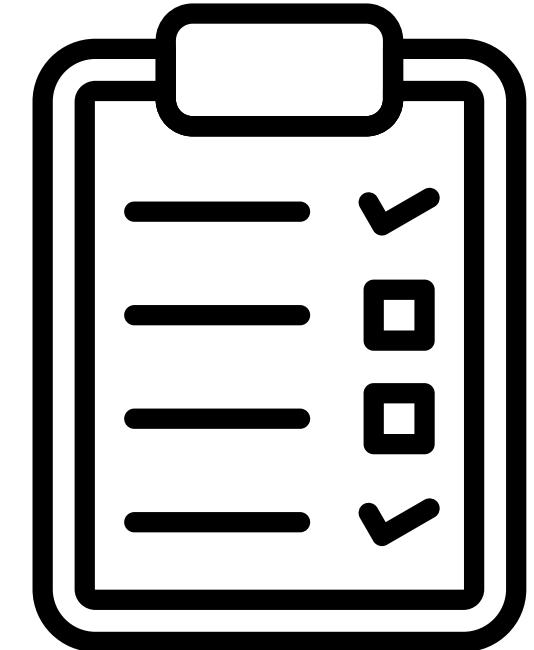
Cross-platform and Cross-device availability of a User's music without the usage of external storage media.



Incurring minimal monetary expenses for experiencing their favorite music, without subscribing to expensive streaming applications like Apple Music, etc.



A fresh visual experience for your favorite music.



View Recommendations : personalized recommendations based on their listening habits. The user will be able to read reviews and provide feedback



Technology Stack

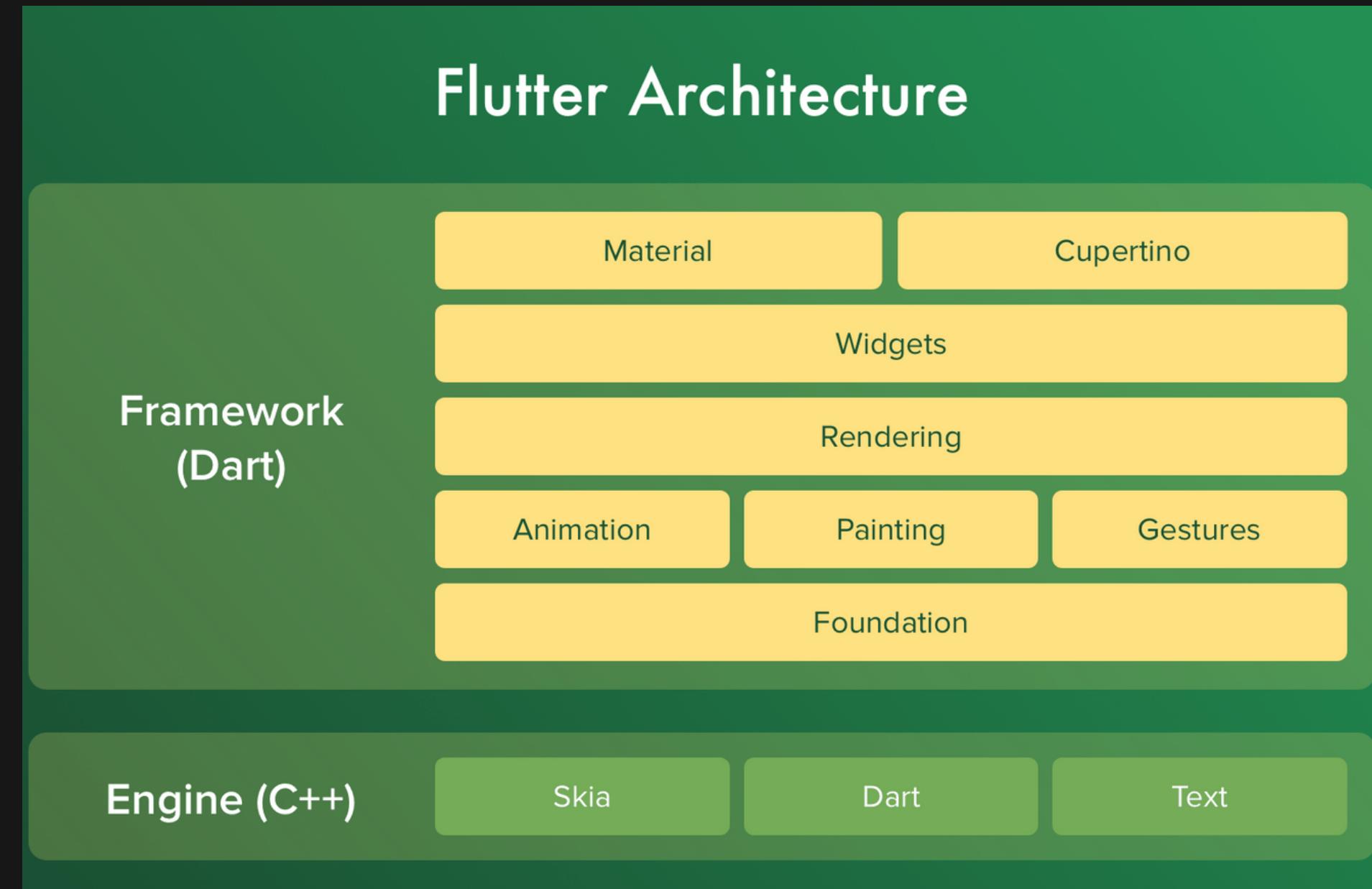
Front End Development - **Flutter**

This framework grabs the attention of many companies and development teams

About Flutter

Flutter is an open-source, cross-platform toolkit used for building apps for mobile OS, web, and desktop with the same code base.

That means developers write code once and apply it to all the platforms – iOS, Android.



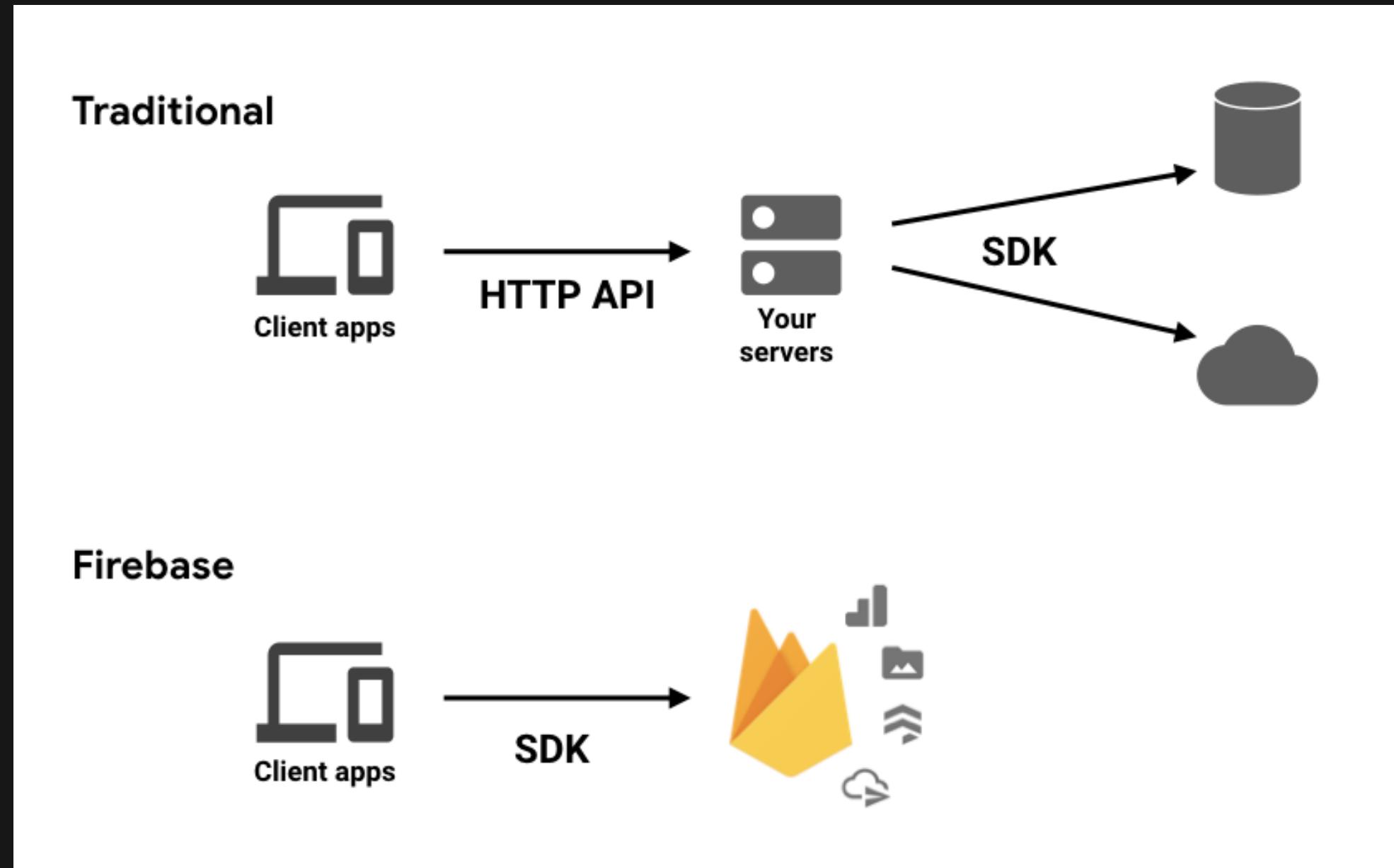


Technology Stack

Back End Development - **Firebase**

Firebase is a mobile-backend-as-a-service. Firebase has three core services: a realtime database, user authentication and hosting

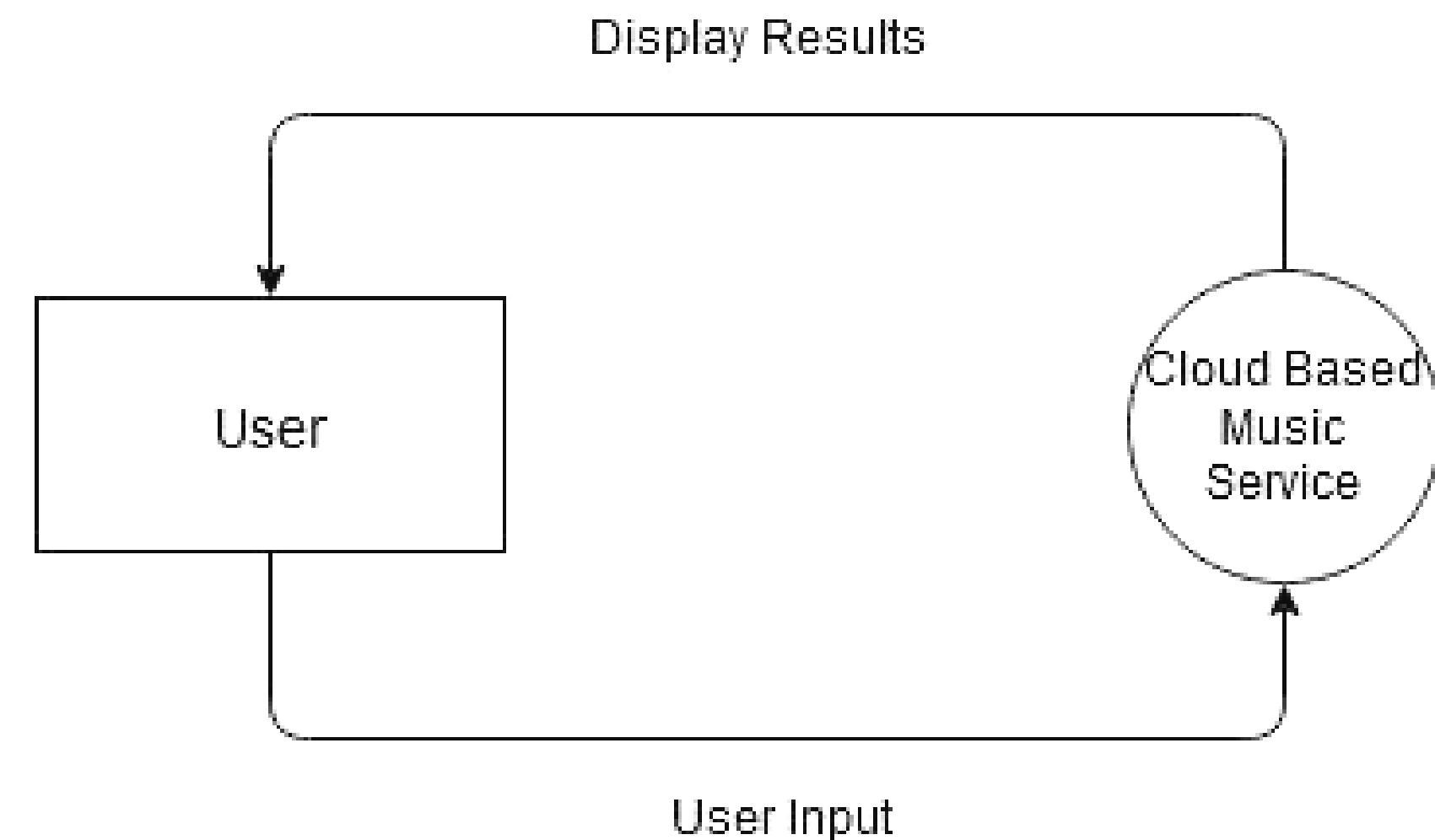
Back end would mainly take care of two aspects - Handling Secure User Logins through Google and Generating Unique Recommendations for every user



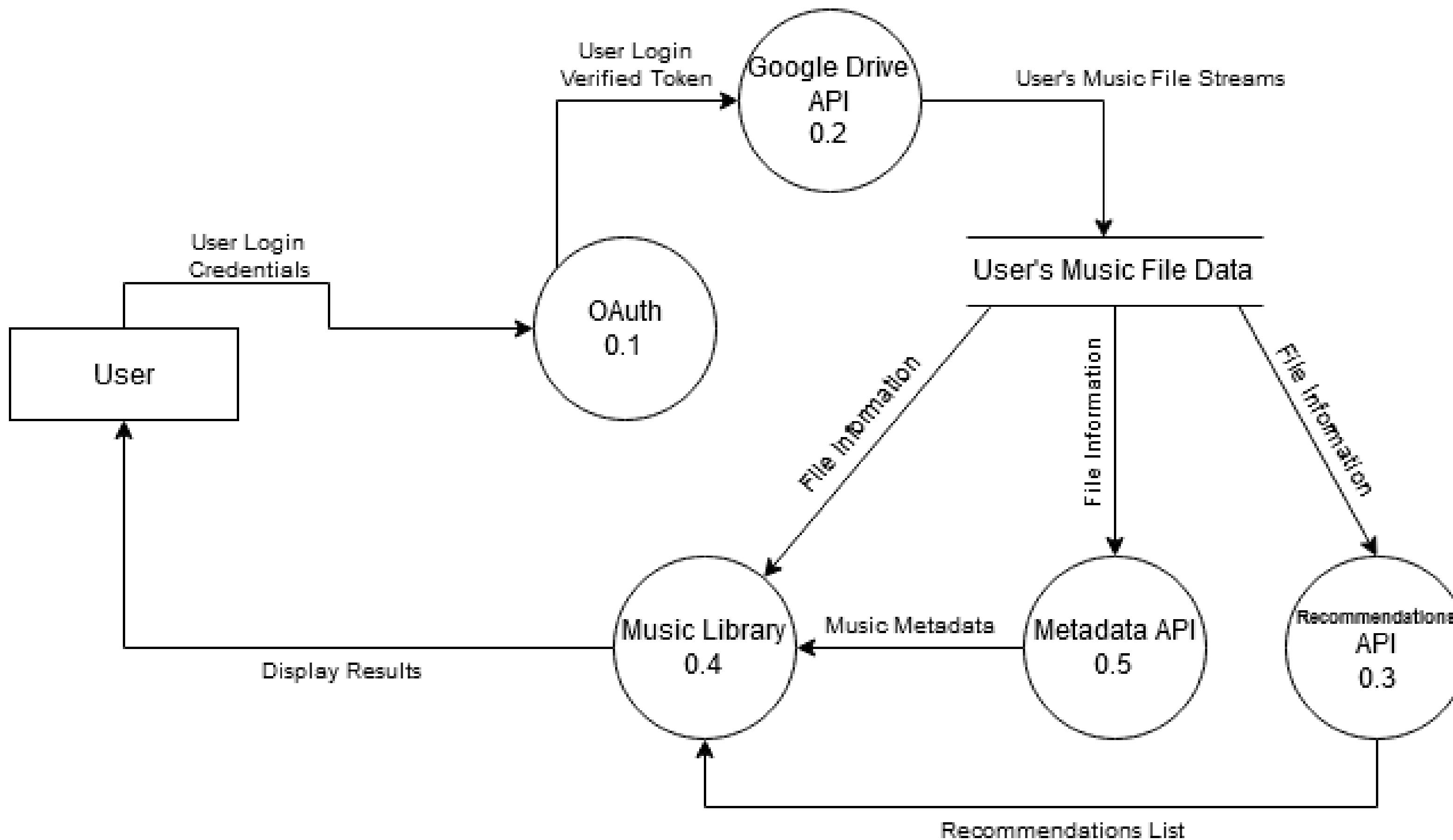
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Data Flow Diagrams

Context Level Diagram



Level 1 DFD



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Software Development Life Cycle Model

The Software Development Life Cycle Model that we have selected for this project is the **V model**.

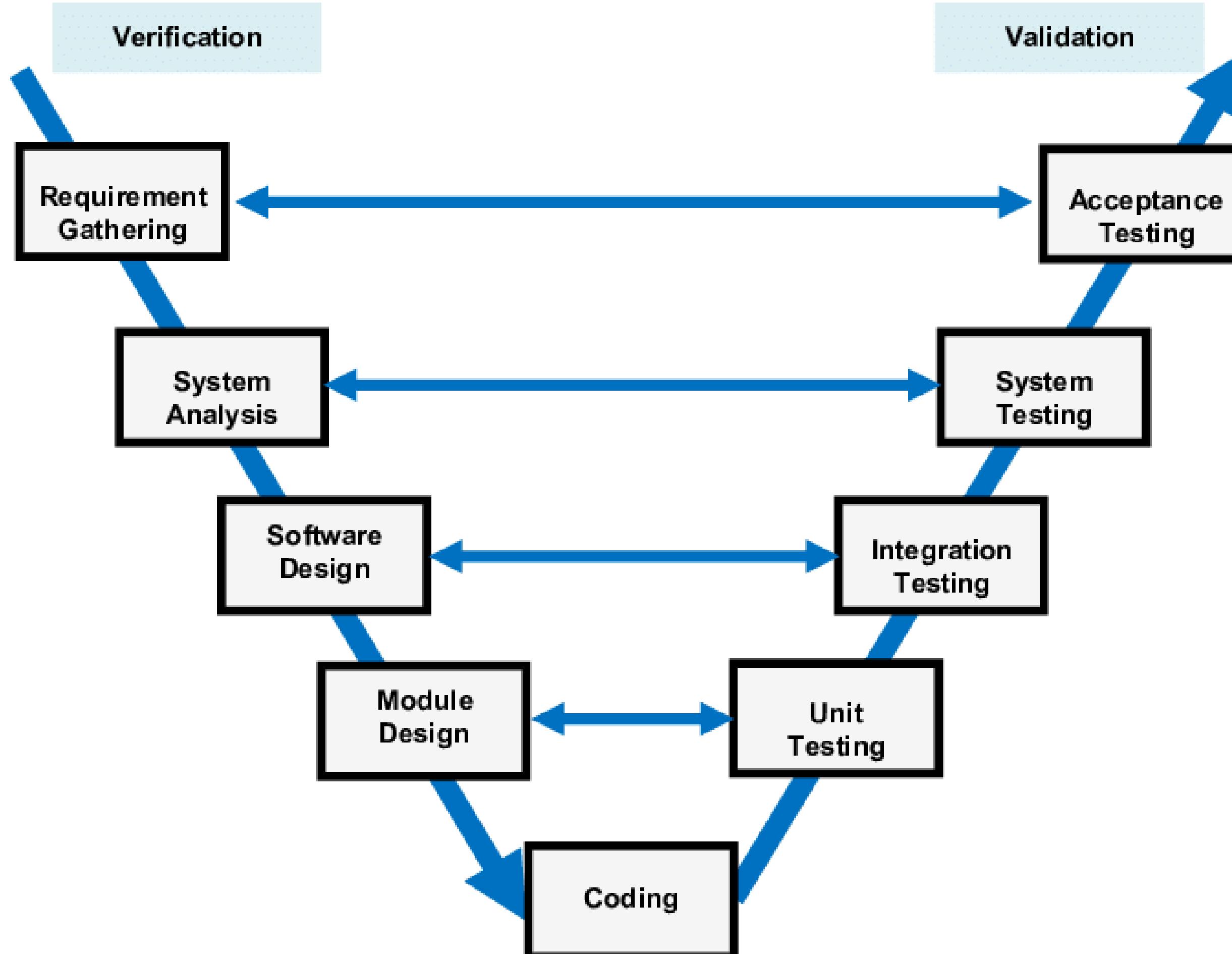
V-Model is used for small projects where project requirements are clear.

Simple and easy to understand and use.

This model focuses on verification and validation activities early in the life cycle thereby enhancing the probability of building an error-free and good quality product.

It enables project management to track progress accurately

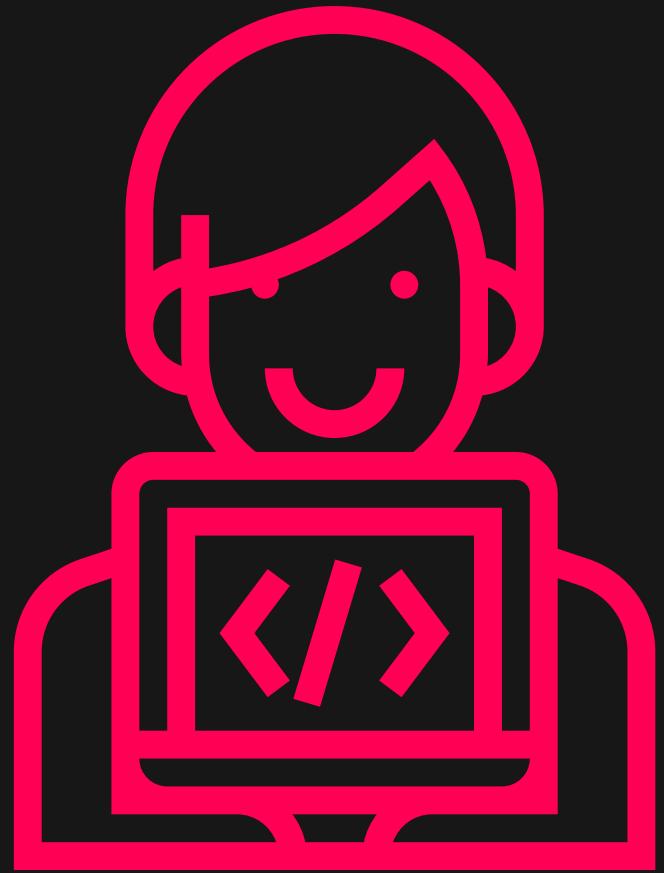
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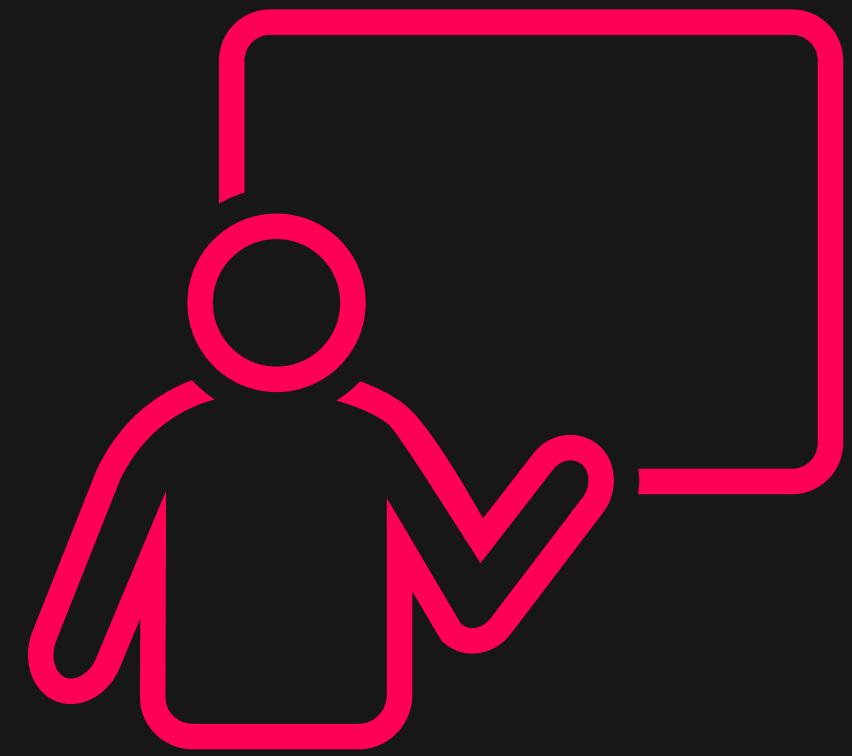
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Testing



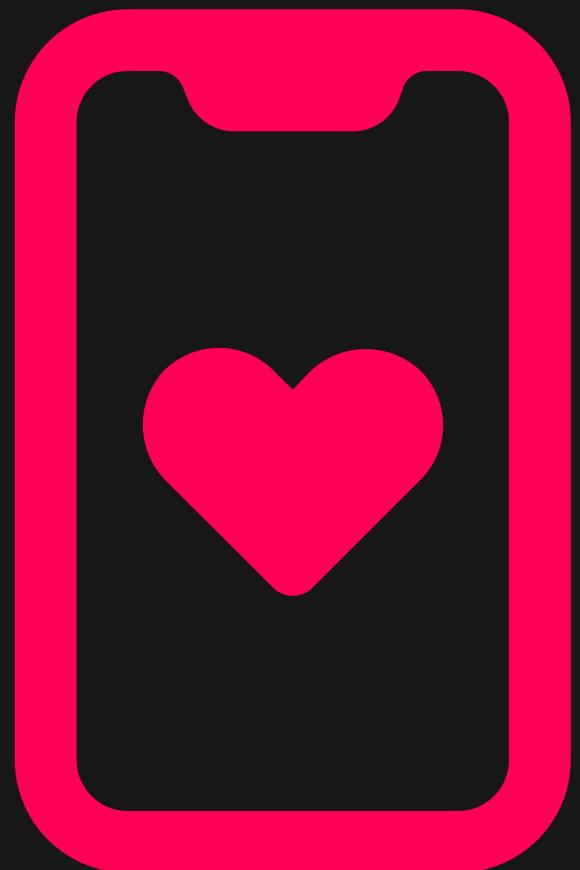
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Demo



Future Prospects

- Better Recomendations
- Improved availability.
- Expansion of supported services.



Thank You