PROJECT IMMERSIS

PLAY MUSIC | WATCH VIDEOS | FIND YOUR LYRICS

ALL IN ONE PLACE

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WHAT WE OFFER

Tired of searching your music, videos and lyrics in different platforms?

We feel you!

Presenting you Immersis, where you can find your music, videos and lyrics; all in one place.

WHY US

This is a one stop platform

For all the Audiophiles out there

OUR GOALS

- ✓ Provide rich user experience for all the music lovers out there.
- ✓ Provide hassle free music searching.
- ✓ Provide music in all forms.
- ✓ Provide ease of access.

MVP REQUIREMENT

Version of a new product which allows a team to collect the maximum amount of validated learning about customers with the least effort.

HOMEPAGE

- Homepage for the website will have search bar, sign-in and sign-up section.

AUTH

- User will be logged in via JWT Token Based authentication.
- Only logged in users will have recent searches options.

SEARCH

- Search bar will be available across the pages to find songs.

VIDEO SECTION

- The music video will be loaded in an iframe if user wants to play.

PLAY MUSIC SECTION

- This section will be for playing music.

LYRICS SECTION

- Lyrics will be loaded into this section.

SEARCH HISTORY

- User's previous search results will be preserved here.

TEST CASES

- Test cases using jest and react testing library.
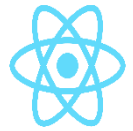
TECH STACK

<u>Frontend</u>

- React + Redux
- Material UI

<u>Backend</u>

- API (SoundCloud + Youtube + Genius)
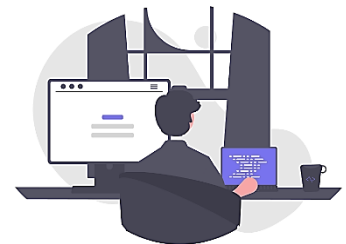- Nodejs + Express
- MongoDB + Mongoose
- Token Based Authentication

<u>CI/CD</u>

- Heroku
- Netlify
- Github Actions

ADDITIONAL REQUIREMENTS

We will be covering these topics once we are done with the MVP requirements.

USER DASHBOARD

- Playlist, Favourites and user stats.

MULTIPLE REGION SUPPORT

- Support for region-based search results and music.

FIREBASE INTEGRATION

- For better authentication, analytics, user experience, crash handling.

USER PERSONAS

- Target Base – Audiophiles and Content Creators.
- Everything you need will be 1-2 steps away.

OUT OF SCOPE

- Support for watching and creating reels.
- Build Android and iOS application.
- Create membership plans to provide premium features like lossless audios.
- Payment gateway integration.
- Dedicated section for No Copy Right Music.

SUCCESS METRICS & GOALS

GOALS	METRICS
Application Development	Develop and deploy complete application
Responsive Application	Develop a fully responsive app that works fine across popular device types and even on low end devices
Customer Journey	Ease of Access, Improving user experience
Traffic	Number of active daily user reaches 10k
Successful	User satisfaction

PROJECT ESTIMATES

FEATURES	WEEKS
PRD & HLD	Week 5
Wireframes	Week 6
Resource APIs setup (Youtube, SoundCloud, Genius)	Week 7
Home, Login, Signup, Forget Password Components	Week 8
Mongo setup and authentication flow & Search, Video, Music, Lyrics Components	Week 9

Password reset, smtp setup and integration with frontend	Week 10
CI/CD and Unit Testing	Week 11
Responsive and Perfection	Week 12

Database Schemas

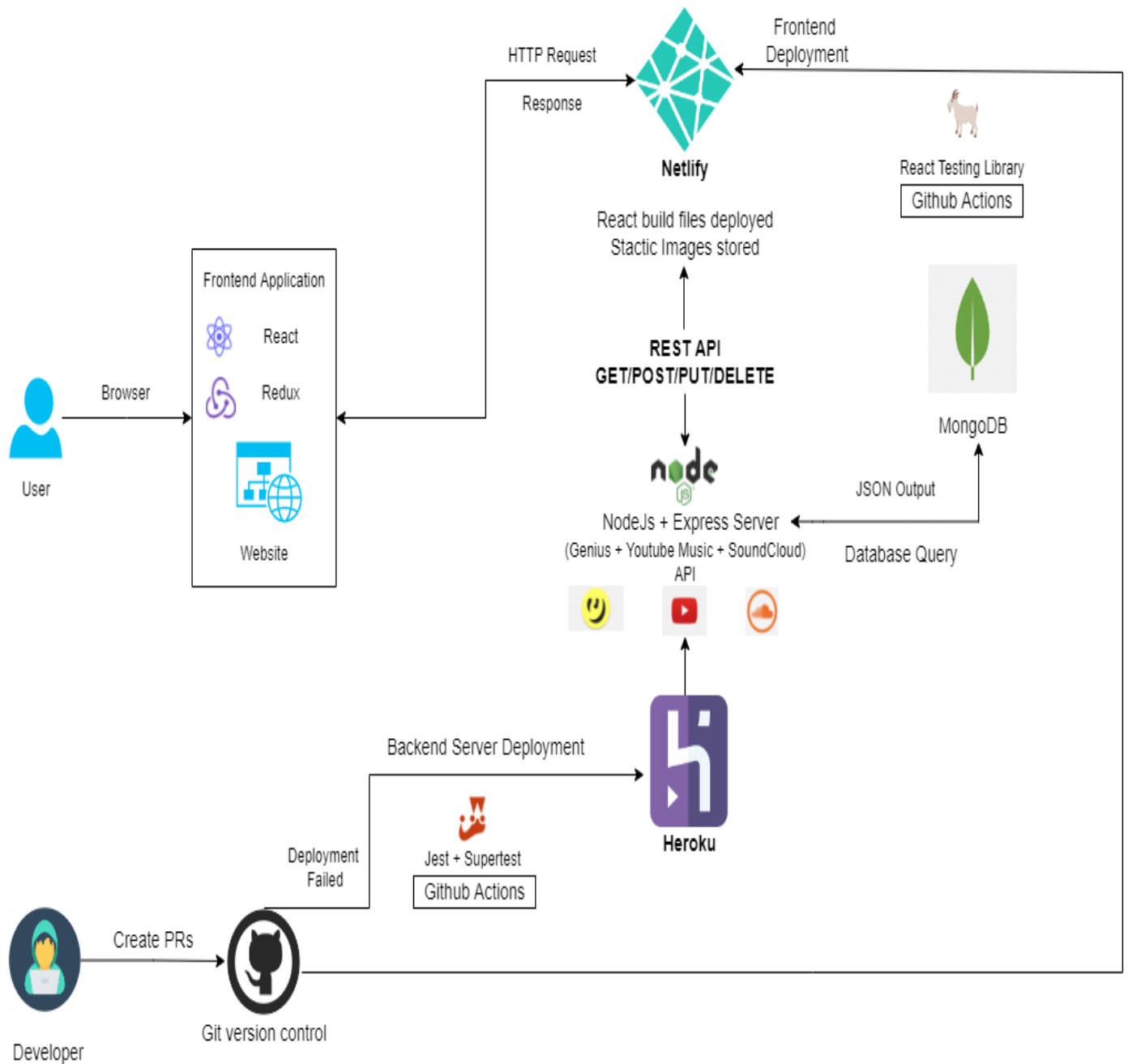| Name	Data Type	Description
_id	Mongo ObjectID	Unique object id
firstName	String	First Name of user
lastName	String	Last Name of user
email	String	Email of the user
passwordHash	String	Hash of user password
searchHistory	Hashmap	Search history of users
resetToken	String	Reset token for password recovery
resetExpiry	Timestamp	Expiry time for reset token

Schema Constraints

Constraint	Fields
Not null	_id, firstName, lastName, passwordHash
unique	_id, email
Primary key	_id

WIREFRAME

Link To Wireframe

HIGH LEVEL DESIGN

HTTP Request

Response

Frontend Deployment

Netlify

React Testing Library

Github Actions

React build files deployed
Stactic Images stored

Browser

Frontend Application

React

Redux

Website

User

REST API
GET/POST/PUT/DELETE

MongoDB

NodeJs + Express Server
(Genius + Youtube Music + SoundCloud)
API

JSON Output

Database Query

Backend Server Deployment

Heroku

Deployment Failed

Jest + Supertest

Github Actions

Create PRs

Git version control

Developer

USER STORIES

- As a music lover I find Immersis has the best user experience to offer.

- Music quality is really good.

- Best thing about Immersis is we can find music, video and lyrics all in same place.

- Being an audiophile it's a pleasure to listen to music in Immersis cause its "IMMERSIVE".

- "OMG" its exactly what I wanted to have and absolutely going to recommend to my friends.

OPEN QUESTIONS

- What extra features will we get if we login?
  - For, now you will be getting all your search history and recent songs played. But we will introduce playlists, favorites and reels later on.
- What kind of music are available?
  - All kind of genres will be there and pretty much all music from popular regions will be available.
- What will be the costing?
  - "Free". Yeah, you heard it. But later on, we will be adding lossless audio which will be available to only premium users.
- What is there for us content creators?
  - We will be adding reels section where you can show your creativity and NCS section will also be there. Cheers!

THANK YOU