



**MANIPAL**  
ACADEMY of HIGHER EDUCATION

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ITT Lab Report  
B.Tech IT 6<sup>th</sup> Semester

## **PopResumé: A Resumé builder web app**

*Submitted by*

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# Introduction

This project aims to build an intuitive online platform for building resumes for individuals. The web app will be flexible, interactive and will reduce the need to think and design an appropriate resume according to qualifications. It will provide an easy means for creating a professional-looking resume. Individuals will have to fill up a form that will include information like educational qualification, work experience, interest, skills, etc. The user will have various resume template options to choose from depending on their job profile.

## Framework and Database Description

We used the **PERN** stack to deploy the project, which stands for Postgres, Express, React, NodeJS. The front-end was designed on **React JS** for component-based development of the main landing page, login module, and so on. The front-end communicates with the backend served by **Express**. The Express backend makes use of OAuth provided by Google as well as our Login System which makes usage of JWT (JSON Web Token) to establish sessions. For the database, Sequelize Package communicates with **PostgreSQL**, which is a relational database. React JS and Express, both are frameworks that run in **Node JS** environment.

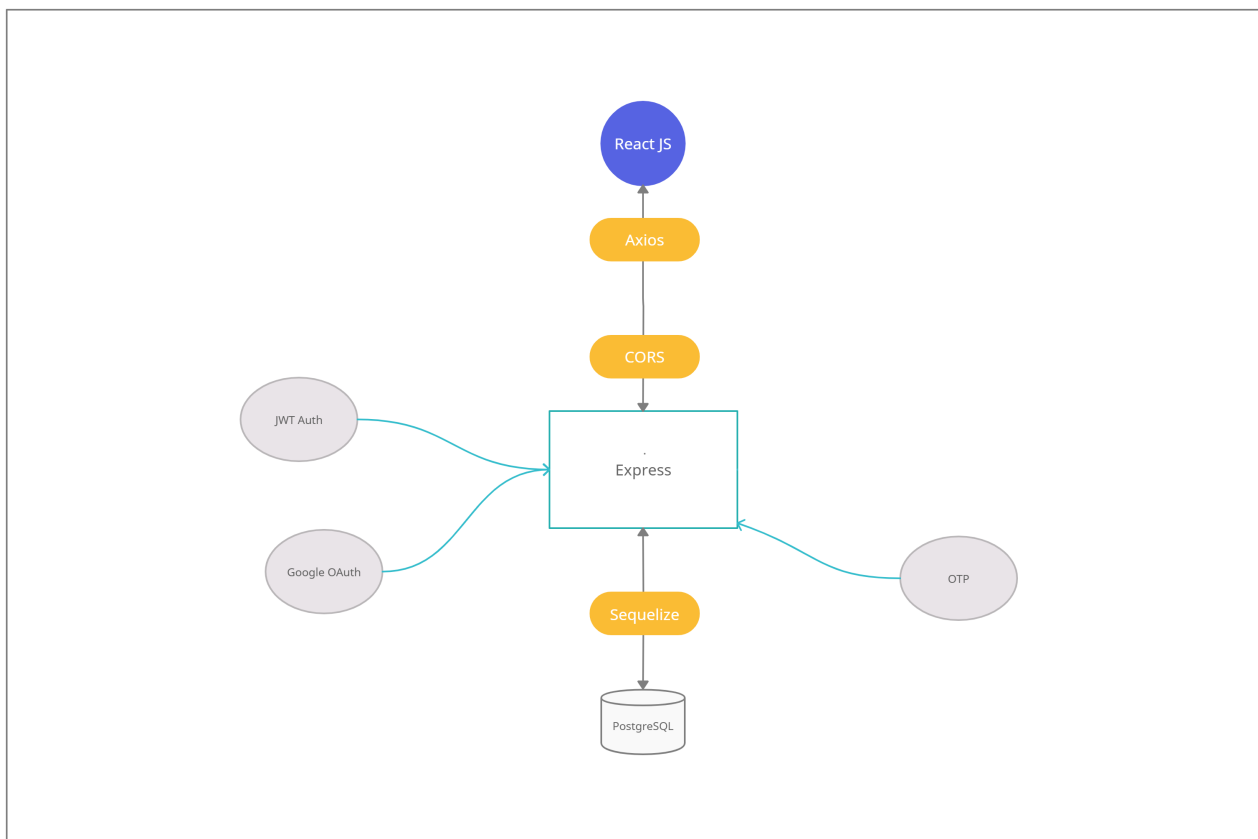


Figure 1: Flowchart

# Implementation Details

## Frontend

The frontend has been built on React JS which is compiled to give a minified version containing the HTML, CSS & JS that is then served by the backend. In many cases, the frontend can also be deployed on a different domain given that the backend allows cross-origin access from that particular domain. The frontend has primarily 3 Routes:

### Home

The Home Route handles the landing of any user and introduces them to the application. This makes use of another component called *Resume* which is the component for Resume editing but here it shows how a resume works in PopResume. That aside, the user has an option to head to the log in page or register page from this route.

### Login

The Login Route handles user login/signup which can be toggled by clicking the thinking emoji.

The login side has 2 options where a registered user can login or directly sign in via Google Account instead. After successful sign up the user is sent to ResumeHandler, and in case of failure, an appropriate message is shown.

The register side has 2 phases. The first part is where the user fills a form and a check is performed to verify if the user is valid. If successful, an OTP is generated that expires in *7min* and is sent to the user, else an appropriate error is notified. The user can either enter the OTP directly and get verified or click on the URL sent and automatically get verified.

Furthermore, animations have been added to the page for a fluid look with the help of *GSAP* and *TweenMax*.

### ResumeHandler

This is where the core functionality of our app lies. The user will make changes to the form having options for different sections, changing themes, details, layout, etc. The document could then be downloaded by the user as a PDF or saved to the database.

## Backend

The backend has been built on the Express framework and makes use of a relational DB called PostgreSQL for storage purposes, which has been synced with the app using the Sequelize package. The Express app makes use of CORS package to communicate across different origins. JWT has been used to establish a user's identity and for easy communication. A route is mounted on 'api/user' that handles all user related procedures such as authentication, login, signup, OTP generation, verification. Means have been provided for backend to emit an event in case of OTP verification via link. The backend has a login system for users and an OTP system the clears data after a given interval with the structure given below.

```
client(id TEXT, fname TEXT, lname TEXT, pwd TEXT, link_gmail BOOLEAN,  
img_thumb TEXT);  
otp (id uuid, email_id TEXT, expiry DATE, otp CHAR(6));
```

# Screenshots



Figure 2: Main Landing Page

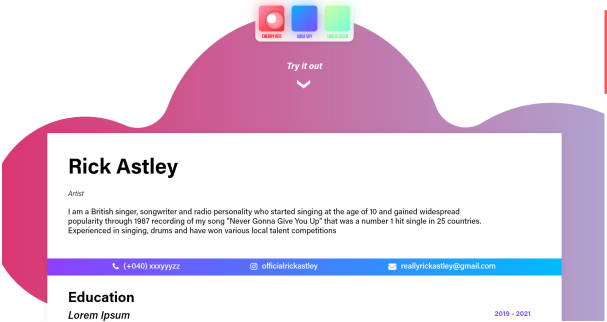


Figure 3: Main Landing Transition Begin



Figure 4: Main Landing Transition End

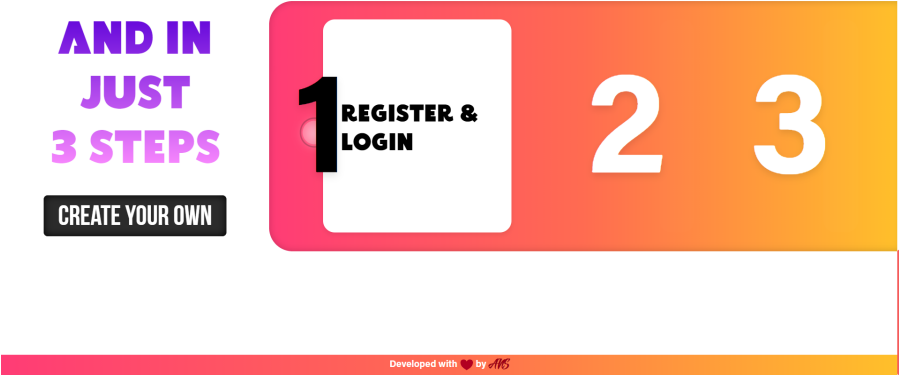


Figure 5: Main Landing Page - Bottom Part



Figure 6: Login Page

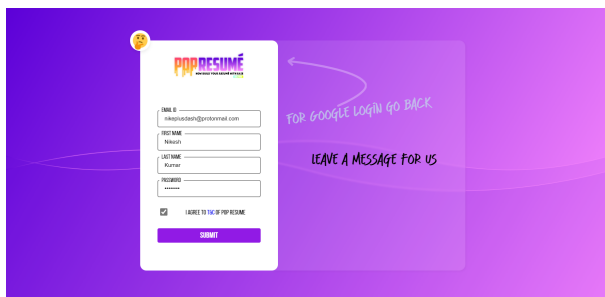


Figure 7: Registration Page

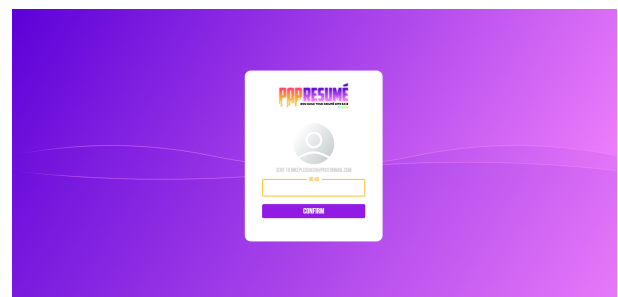


Figure 8: OTP

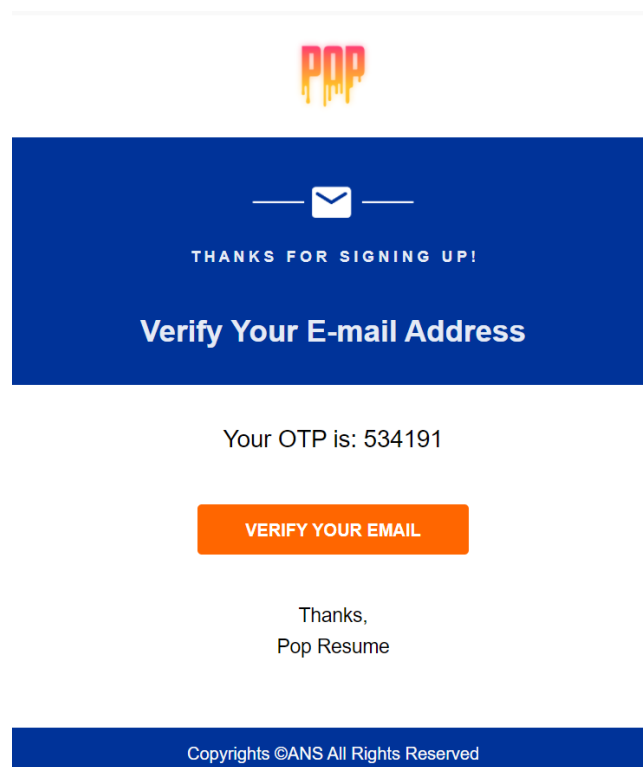


Figure 9: Mail Preview

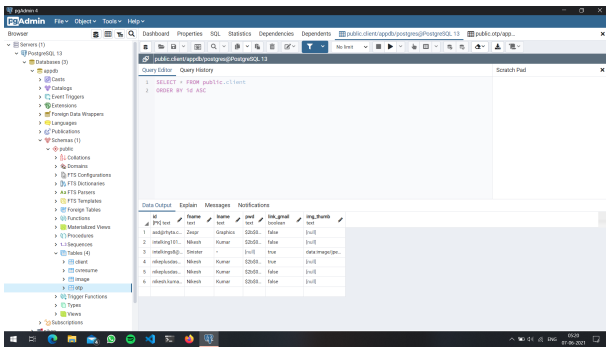


Figure 10: Backend Entries for Users

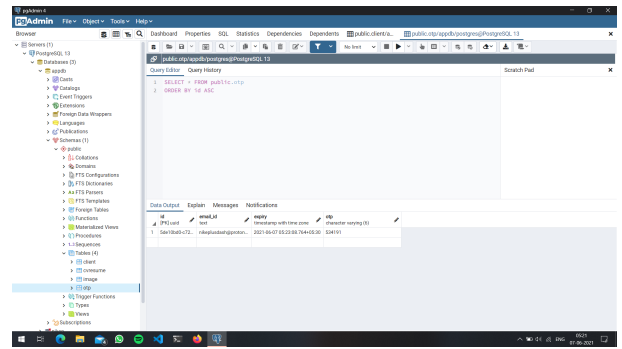


Figure 11: Backend Entries for OTP

# Rick Astley

Artist

I am a British singer, songwriter and radio personality who started singing at the age of 10 and gained widespread popularity through 1987 recording of my song "Never Gonna Give You Up" that was a number 1 hit single in 25 countries. Experienced in singing, drums and have won various local talent competitions

(+040) xxxxyzz

@officialrickastley

reallyrickastley@gmail.com

## Education

### Lorem Ipsum

2019 - 2021

GPA: 10

Astley was performing as a drummer with a soul band named FBI, with Morris on guitar. Astley was taught about the recording process and groomed for his future career

### Lorem Ipsum

2019 - 2021

%: 100

Lorem Ipsum

## Experience

### Lorem Ipsum

2019 - 2021

His first solo offering was "Never Gonna Give You Up", recorded on New Year's Day 1987, and released eight months later, in August. Astley's distinctive rich, deep voice combined with dance-pop made the song an immediate success, spending five weeks at the top of the British charts and becoming the year's highest-selling single. The song was also a worldwide number-one hit, topping the charts in 24 other countries, including the US, Australia, and West Germany. It was the first of 13 (worldwide) top 30 hit singles for him. "Never Gonna Give You Up" won Best British Single at the 1988 BPI awards (now called the BRIT Awards), and he performed it in front of a global audience of 100 million.

Lorem Ipsum

### Lorem Ipsum

2019 - 2021

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Lorem Ipsum

## Interests

Playing

Reading

Singing

Playing

Reading

Singing

Playing

Reading

Singing

Playing

Reading

Singing

## Languages

English

Hindi

Urdu

French

Chinese

## Skills

Listening

Speaking

Analysing

Figure 12: PDF Preview

Logout

## CREATE YOUR RESUME

Basic Information

Education +

Experience +

Organizations +

Languages +

Skills +

Figure 13: Resume Building Page

## Conclusion

This App aims to develop a resume platform that allows users to register and create themed resumes with ease because we believe a good resume can provide a user an edge when compared to other candidates for the same role. The web application boasts of a minimalistic, yet attractive and easily navigable user interface, and users can generate neat and professional resumes without any hassle.

## Future Work

Possible extensions to the app are feasible

- Add more resume templates
- A dashboard for all resume
- Improve security
- Real-time editability