

Skill-a-Thon 1.0

Team Name : Tech Titans

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Challenge 1 : BAP Platform

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Introduction :

We have developed a BAP Platform, a consumer side application developed as an Open Source platform following the Decentralised Skilling and Education Protocol Community.

The application serves to provide the interface to consumers to apply for Scholarships & Grants, to book Mentor & Tutor Sessions.

It's an android application and has the BAP API's implemented using the DSEP protocol.

Tech Stack :

Frontend: Kotlin

Backend: NodeJs

Admin Portal: ReactJs

Database: MongoDB

Deployment Infrastructure: Railway

Application Features :

We are developing the following categories in our BAP Application :

- 1) Scholarships & Grants
- 2) User Profile

Scholarships & Grants :

- User can search for Scholarships based on the following filters :
 1. Scholarship Name
 2. Categories
 3. Courses & Fields
 4. Family Income
 5. Gender
 6. ID
- User can select a Scholarship to get complete details of it
- User can Bookmark a Scholarship for future reference
- User can Apply for Scholarships if he/she is eligible
- User can get status of Applied Scholarships
- User can get history of applied Scholarships

User Profile :

- User can signup/login using their email ID
- User can upload their information like Categories, Resume, etc
- User can apply for scholarships & grants
- User can update his profile

User Flows :

- User will signup using email
- User will get a verification Link on its email ID
- User can login once verification is done
- After logging in, User will have the option to update its profile
- User can view the Scholarships available to apply
- User will save scholarships
- User will apply for Scholarships

APIs :

- User APIs :

Set Up User Profile :

Endpoint : /user/profile

Action : POST

Request Body : {

 name,
 email,
 password,
 mobile,
 gender

}

Log In :

Endpoint : /user/profile/login

Action : POST

Request Body : {

```
        username,  
        password  
    }
```

Update Profile :

Endpoint : /user/profile

Action : PUT

```
Request Body : {  
    resume,  
    profile_pic,  
    category,  
    college_name,  
    course,  
    yearOfStudy,  
    branch  
}
```

Get Profile :

Endpoint : /user/profile

Action : GET

```
Request Body : {  
}
```

Get List of Registered Sessions with Mentors :

Endpoint : /user/session

Action : GET

Request Body : {
}

- Scholarships APIs

Get All Scholarships :

Endpoint : /scholarship
Action : GET

Request Body : {
}

Get Scholarships By Query :

Endpoint :
/scholarship?name="name"&category="category"&branch="branch"&course
="course"&income="income"&gender="gender"

Action : GET

Request Body : {
}

Example : /scholarship?name="Dream"

Get Scholarship By ID :

Endpoint : /scholarship/:id

Action : GET

Request Body : {
}

Bookmark a Scholarship :

Endpoint : /save/scholarship

Action : POST

Request Body : {
 scholarship_id
}

Remove a Bookmark :

Endpoint : /remove/scholarship

Action : POST

Request Body : {
 scholarship_id
}

Apply for a Scholarship :

Endpoint : /apply/scholarship

Action : POST

Request Body : {
 scholarship_id,


```
    name,  
    email,  
    why_apply,  
    aadhar_card,  
    caste_certificate,  
    income_certificate  
}
```

Get List of Applied Scholarships :

Endpoint : /user/scholarship

Action : GET

Request Body : {
}

- **Mentors & Tutors APIs**

Get All Mentors :

Endpoint : /mentor

Action : GET

Request Body : {
}

Get a Mentor By ID :

Endpoint : /mentor/:id

Action : GET

Request Body : {
}

Get All Sessions :

Endpoint : /session
Action : GET

Request Body : {
}

Get Sessions By Query :

Endpoint :
/session?mentor_name="name"&mentor_id="mentor_id"&title="title"

Action : GET

Request Body : {
}

Example : /session?mentor_name="Abhi"&title="Android"

Get Session By ID :

Endpoint : /session/:id
Action : GET

Request Body : {
}

Bookmark a Session :

Endpoint : /save/session
Action : POST

Request Body : {
 _id
}

Remove a Bookmark :

Endpoint : /remove/session
Action : POST

Request Body : {
 _id
}

Register for a Session :

Endpoint : /session/register
Action : POST

Request Body : {
 _id
}

Get List of Applied Sessions :

Endpoint : /user/session

Action : GET

Request Body : {
}

- **Admin APIs**

Admin Login :

Endpoint : /admin/login

Action : POST

Request Body : {
}

Get List of Users :

Endpoint : /admin/users

Action : GET

Request Body : {
}

Get List of Scholarships:

Endpoint : /admin/scholarships

Action : GET

Request Body : {
}

Get List of Mentors:

Endpoint : /admin/mentors
Action : GET

Request Body : {
}

Application Installation Guide :

BAP Application :

Steps :

- 1) Clone the GitHub Repo containing the source code
- 2) Open the Android-App folder in your Android Studio
- 3) Build the gradle and run the apk on your Emulator or Mobile device

Admin Portal :

Steps :

- 1) Clone the GitHub Repo containing the source code
- 2) Open the React-Admin folder in your terminal/cmd/powershell
- 3) Run npm i for installing all necessary dependencies / npm packages
- 4) Run npm run dev or npm run start to Start the Server
- 5) Your Server is hosted on localhost:3000