

Backend Schema:

1. HomePage:

- **Login:**

- **Students:**

- DB Schema Not required
 - Google Sheet API for fetching Name, Roll and matching Institute Mail Address
 - OTP API endpoint:
 - Generate: **/generate_otp/**
 - Verify: **/verify_otp/**

- **Officials:**

- DB Schema Not required
 - Google Sheet API for matching username, password.

- **Carousel:**

- DB Fields:
 - ID(int)
 - Name (String)
 - Image (File)
 - IsActive (Boolean)
 - TimeStamp (DateTime)
 - Description (Optional- String)
 - API Endpoints:
 - GET :
 - GET All: **/carousel/**
 - GET One : **/carousel/{id}**
 - POST : **/carousel/**
 - PATCH : **/carousel/{id}**
 - DELETE : **/carousel/{id}**

- **Recent Events: (Refer Feature 3 for more details)**

- API Endpoints:
 - GET :
 - GET All: **/events/recent/**
 - Get One: **/events/{id}**

2. Student Profile:

- **Achievements:**

- DB Fields:

- ID(int)
 - StudentRoll (String)
 - AchievementTitle (String)
 - AchievementDescription(String)
 - AchievementCategory (String: Technology/Social and Culture/Sports and Games/Students' Welfare/Others)
 - Certificates (Files)
- API Endpoints:
 - GET :
 - GET All: **/achievements/**
 - GET One : **/achievements/{id}**
 - Get Custom: **/achievements?{studentRoll=<ROLL>&category=<CATEGORY>}**
 - POST : **/carousel/**
 - PATCH : **/carousel/{id}**
 - DELETE : **/carousel/{id}**
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- **Student Grievance:**
 - DB Fields:
 - ID (int)
 - StudentName (String)
 - StudentRoll (String)
 - StudentMail (String)
 - StudentHallOfResidence (String: RP/RK/LBS/...)
 - Subject (String)
 - GrievanceDescription (String)
 - SupportingFiles (File: Optional)
 - TimeStamp (DateTime)
 - API Endpoints:
 - GET :
 - GET All: **/grievances/**
 - GET One : **/grievances/{id}**
 - POST : **/grievances/**
 - PATCH : **/grievances/{id}**
 - DELETE : **/grievances/{id}**
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3. Events (TSG):

- **DB Fields:**

- ID (int)
- Name (String)
- Type (String: Technology/Social and Culture/Sports and Games/Students' Welfare/ societies / clubs / fests / cells / research groups)
- Status (String: Ongoing/Upcoming/Finished/Archived) (String)
- Report (File)
- Image (File)
- Description (Optional)
- EventStartTime (DateTime)
- EventEndTime (DateTime)

- **API Endpoints:**

- GET :
 - GET All: **/events/**
 - Get One: **/events/{id}**
 - Get Events with custom Status/Type:
/events?type=<TYPE>&status=<STATUS>
- POST : **/events/**
- PATCH : **/events/{id}**
- DELETE : **/events/{id}**

4. Society Point:

- Society Events Covered in Feature #3

- **Bill Reimbursement Portal:**

- DB Fields:
 - ID (int)
 - Roll Number (String)
 - Document (File: Image/Document)
 - Verification Status (String: Successfully Verified / In Process / Declined)
 - Remarks(String)
- API Endpoints:
 - GET:
 - Get One: **/bill_reimbursements/{id}**
 - Get All: **/bill_reimbursements**
 - POST: **/bill_reimbursements/**
 - PATCH: **/bill_reimbursements/{id}**
 - DELETE: **/bill_reimbursements/{id}**

5. News Bulletin:

- **DB Fields:**

- ID (int)
- Name (String)
- Author (String)
- Text (String)
- Image (File)
- TimeStamp (DateTime)

- API Endpoints:

- GET :
 - GET All: **/news/**
 - Get One: **/news/{id}**
- POST : **/news/**
- PATCH : **/news/{id}**
- DELETE : **/news/{id}**

6. Students' Point:

- **Academic Point:**

- DB Fields:

- ID (int)
- Name (String)
- Links (List of Strings)
- YearOfStudy (String: FirstYear, SecondYear, ...)
- Department (String: CS, ME, AR ...)
- Document (File)
- Text (String)

- API Endpoints:

- GET :
 - GET All: **/academic_point/**
 - Get One: **/academic_point/{id}**
 - Get Custom :
/academic_point?{yearOfStudy=<YEAR>&dept=<DEPT>}
- POST : **/academic_point/**
- PATCH : **/academic_point/{id}**
- DELETE : **/academic_point/{id}**

- **Career Point:**

- DB Fields:

- ID (int)
- Name (String)

- Links (List of Strings)
- Field (String: SDE, Quant, Finance, Consulting ...)
- Document (File)
- Text (String)
- API Endpoints:
 - GET :
 - GET All: **/career_point/**
 - Get One: **/career_point/{id}**
 - Get Custom : **/career_point?{field=<FIELD>}**
 - POST : **/career_point/**
 - PATCH : **/career_point/{id}**
 - DELETE : **/career_point/{id}**