YOGA Academy Admission Portal

Overview:

This application is built to help customers to get YOGA Academy Admission online.

Users of the System:

1. Admin
2. User

Functional Requirements:

- Build a portal that enables customers can get YOGA Academy Admission online.
- The customers can add/edit/view/delete admission.
- The admin can add/edit/delete/view courses.
- The admin can add/edit/delete/view institutes.
- The admin can add/edit/delete/view students.
- Customer can provide reviews.

While the above ones are the basic functional features expected, the below ones can benice to have add-on features:

- Have appropriate filters for search.
- Email integration for intimate customers.
- Multi-factor authentication for the sign-in process
- Payment Gateway (if required)

Output/ Post Condition:

- Records Persisted in Success & Failure Collections
- Standalone application / Deployed in an app Container

Non-Functional Requirements:

Security	• App Platform – Username/Password-Based Credentials • Sensitive data has to be categorized and stored in a securemanner • Secure connection for transmission of any data
Performance	• Peak Load Performance (during Festival days, National holidaysetc.)

	• Admin application < 2 Sec • Non-Peak Load Performance • Appointment Application< 2 Sec • Admin Application < 2 Sec
Availability	• 99.99 % Availability
Standard Features	• Scalability • Maintainability • Usability • Availability • Failover
Logging & Auditing	• The system should support logging(app/web/DB) & auditing at all levels
Monitoring	• Should be able to monitor via as-is enterprise monitoring tools
Cloud	• The Solution should be made Cloud-ready and should have a minimum impact when moving away to Cloud infrastructure
Browser Compatible	• All latest browsers

Technology Stack

Front End	Angular 10 Material Design Bootstrap / Bulma
Server Side	Spring Boot
Database	MySQL or Oracle or MSSQL

Platform Prerequisites (Do's and Don'ts):

1. The react app should run in port 8081.
2. Spring boot app should run in port 8080.

Key points to remember:

1. The id (for frontend) and attributes(backend) mentioned in the SRS should not be modified at any cost. Failing to do may fail test cases.
2. Remember to check the screenshots provided with the SRS. Strictly adhere to id mapping and attribute mapping. Failing to do may fail test cases.
3. Strictly adhere to the proper project scaffolding (Folder structure), coding conventions, method definitions and return types.
4. Adhere strictly to the endpoints given below.
5. **This is a basic SRS document, so understand them well and please feel free to explore and come with new ideas.**

Application assumptions:

1. The login page should be the first page rendered when the application loads.
2. Manual routing should be restricted by using Auth Guard by implementing the can Activate interface. For example, if the user enters as http://localhost:8080/signup or http://localhost:8080/home the page should not navigate to the corresponding page instead it should redirect to the login page.
3. Unless logged into the system, the user cannot navigate to any other pages.
4. Logging out must again redirect to the login page.
5. To navigate to the admin side, you can store a user type as admin in the database with a username and password as admin.
6. Use admin/admin as the username and password to navigate to the admin dashboard.

Validations:

1. Basic email validation should be performed.
2. Basic mobile number validation should be performed.

Project Tasks:

API Endpoints:

Admin Side:

Action	URL	Method	Response
Admin Login	/admin/login	POST-Sends email ID and password	Return True/False
Admin SignUp	/admin/signup	POST-Sends Admin Model data	Admin added
Add Courses	/admin/addCourse	POST – Sends Course data	Courses added
View Courses	/admin/viewCourse	GET – Fetches course data	Retrieve all the courses
Edit Courses	/admin/editCourse/{courseId}	PUT – Send course Id	Course edited
Delete Courses	/admin/deleteCourse	DELETE – Send course Id	Course deleted
Add Institutes	/admin/addInstitute	POST – Sends Institute data	Institute added
View Institutes	/admin/viewInstitutes	GET – Fetches course data	Retrieve all the institute
Edit Institutes	/admin/editInstitute/{instituteId}	PUT – Sends institute Id	Institute edited

Delete Institutes	/admin/ deleteInstitutes	DELETE – Sends Institute Id	Institute deleted
Add Student	/admin/addStudent	POST – Sends student data	Student added
View Student	/admin/viewStudent	GET – Fetches student details	Retrieve all the student details
Edit Student	/admin/editStudent/{studentId}	PUT – sends student id	Student details edited
Delete Student	/admin/deleteStudent/{studentId}	DELETE – sends student id	Student details deleted

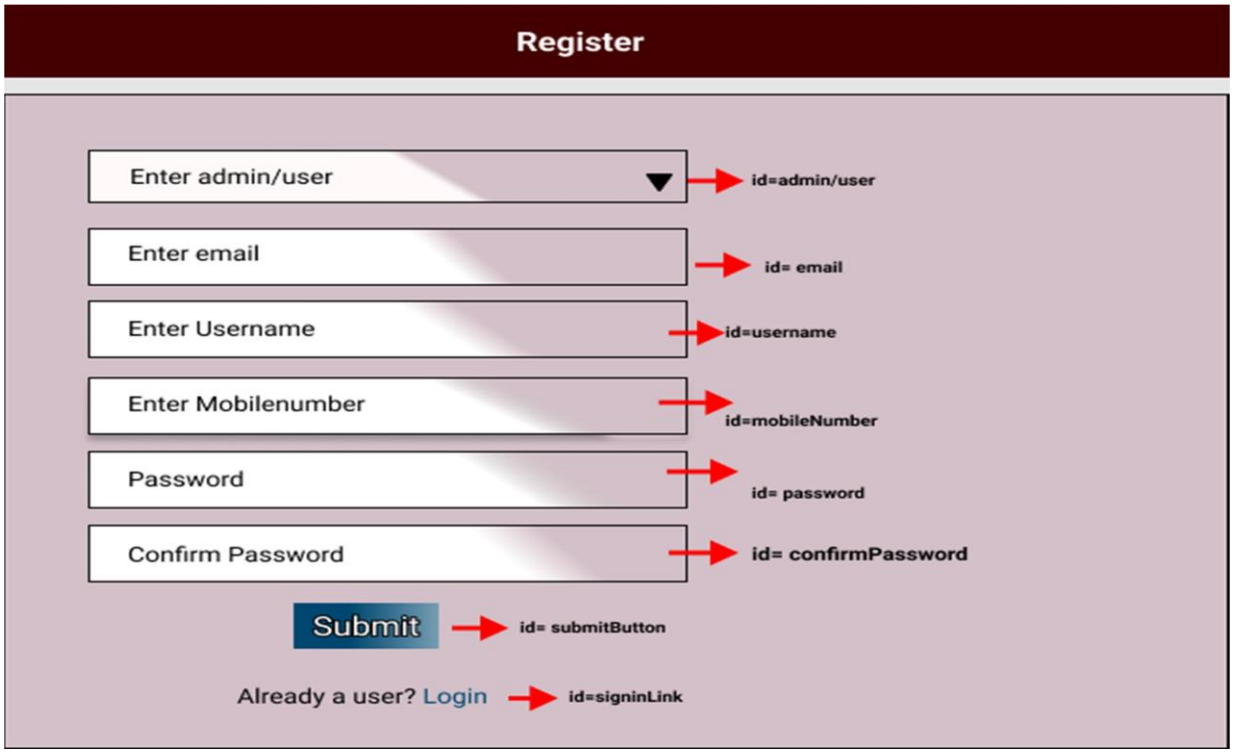
User Side:

Action	URL	Method	Response
User Login	/user/login	POST-Sends email ID and password	Return True/False
Admin SignUp	/user/signup	POST-Sends User Model data	User added
Add Admission	/user/addAdmission	POST – Sends admission data	Course enrolled
View Admission	/user/viewAdmission	GET – Fetches admission data	Retrieve the admission details
Edit Admission	/user/editAdmission/{enrollId}	PUT – Sends admissionId	Admission details edited
Delete Admission	/user/deleteAdmission/{enrollId}	DELETE – Sends admissionId	Admission details deleted
View Status	/user/viewStatus	GET – Fetches Admission status	Admission Application Status

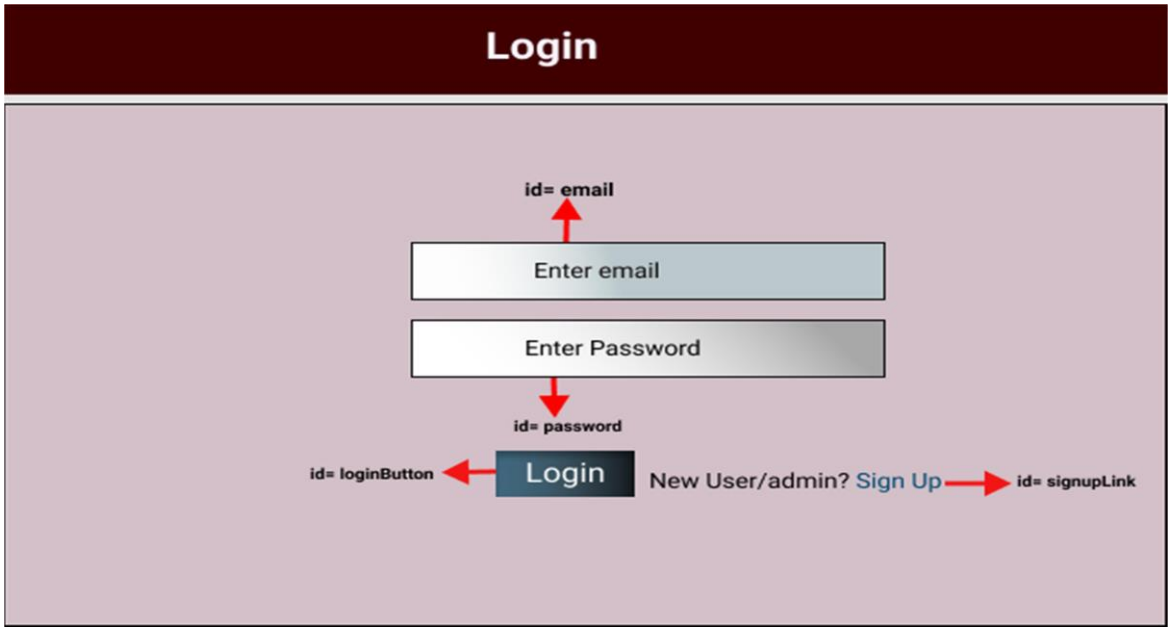
Frontend:

Customer:

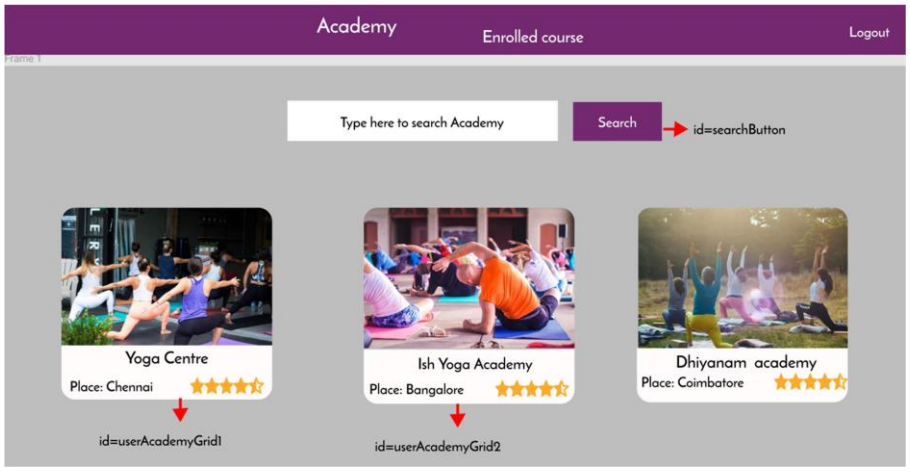
1. Auth: Design an auth component where the customer can authenticate login and signup credentials
2. Signup: Design a signup page component inside the auth where the new customer has options to sign up by providing their basic details.
    a. Ids: Refer to the screenshot below for the id details.
    b. Output screenshot:

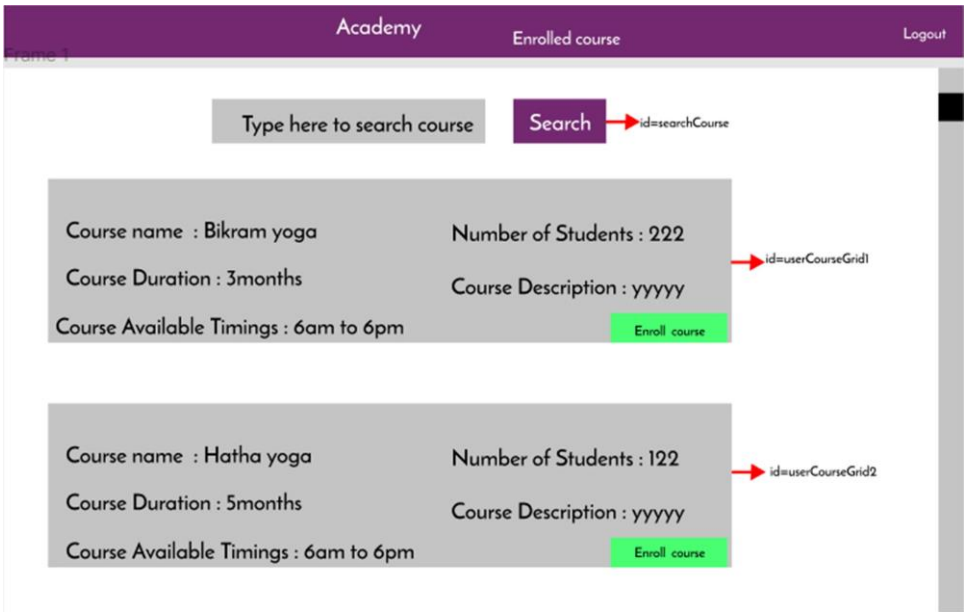


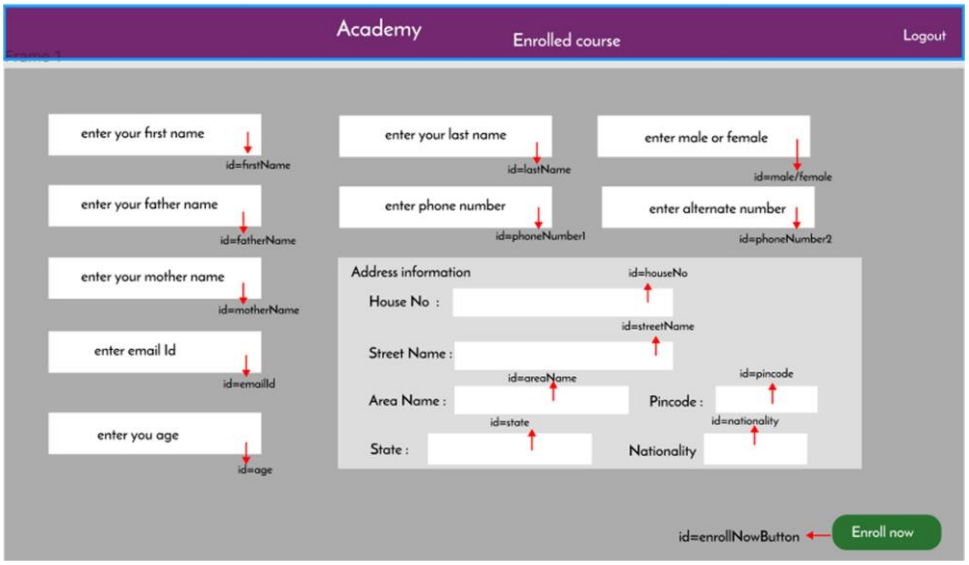
3. Login: Design a login page inside the auth where the existing customer can log in using the registered email id and password.
    a. Ids: Refer to the screenshot below for the id details.
    b. Output Screenshot:



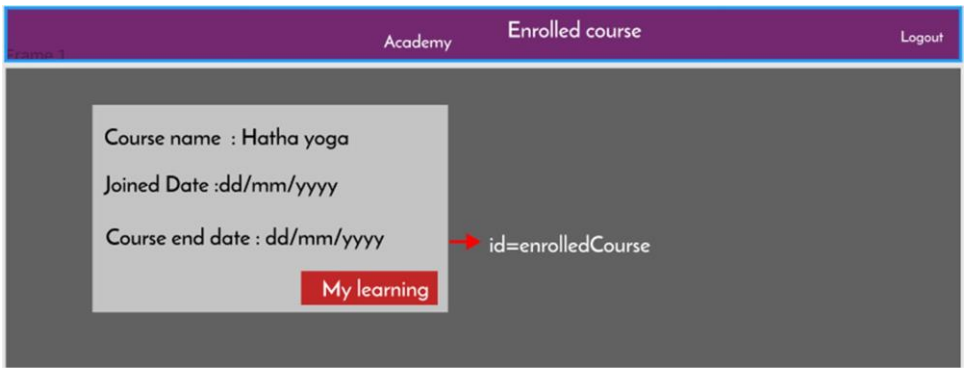
4. View Academy: Design a component
    a. Ids: Refer to the screenshot below for the id details.
    b. Output Screenshot:





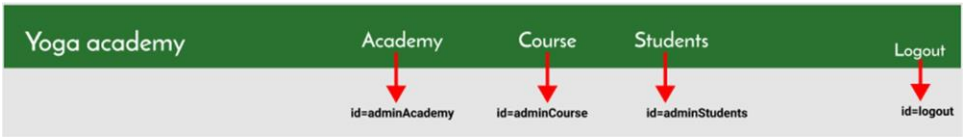


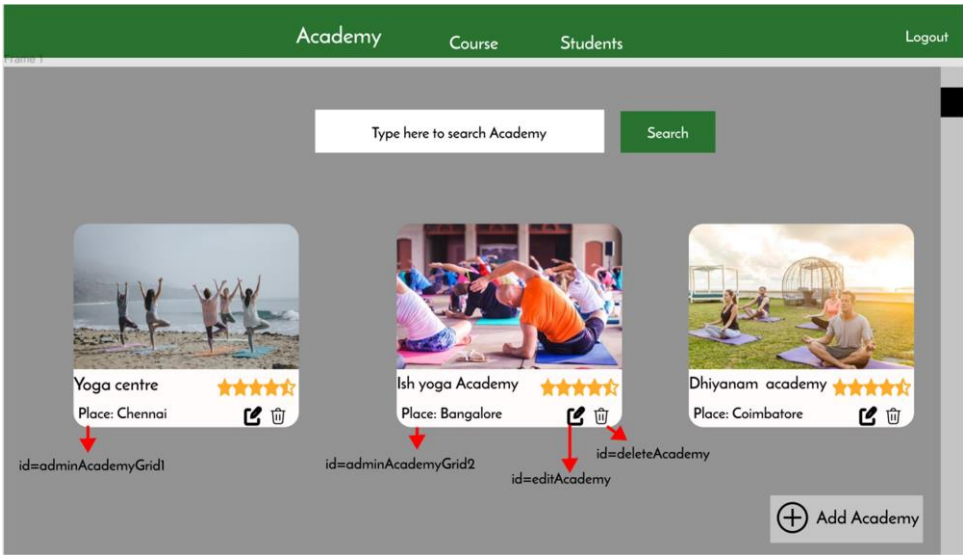
5. Enrolled Course: Design a component
    a. Ids: Refer to the screenshot below for the id details.
    b. Output Screenshot:



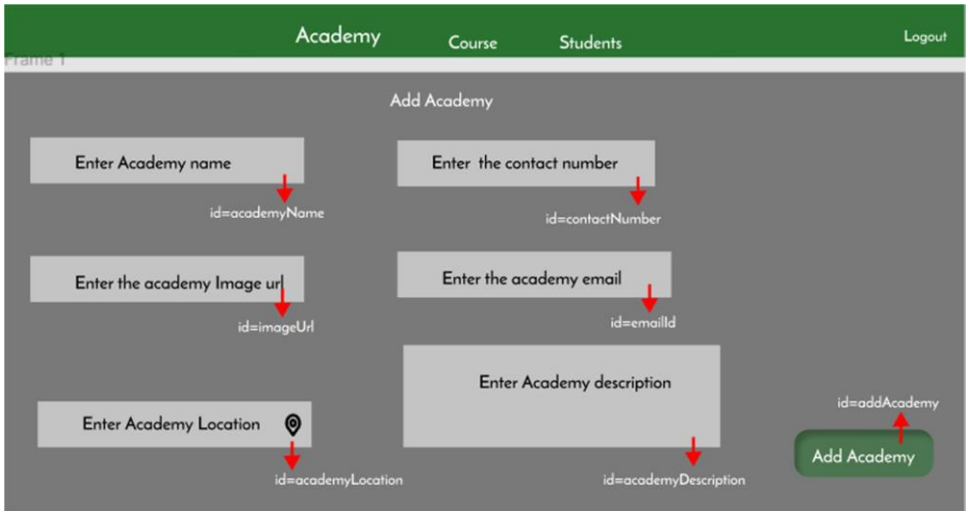
Admin:

6. Admin Academy: Design a component .Admin can add the new academy details.
    a. Ids: Refer to the screenshot below for the id details.
    b. Output Screenshot:

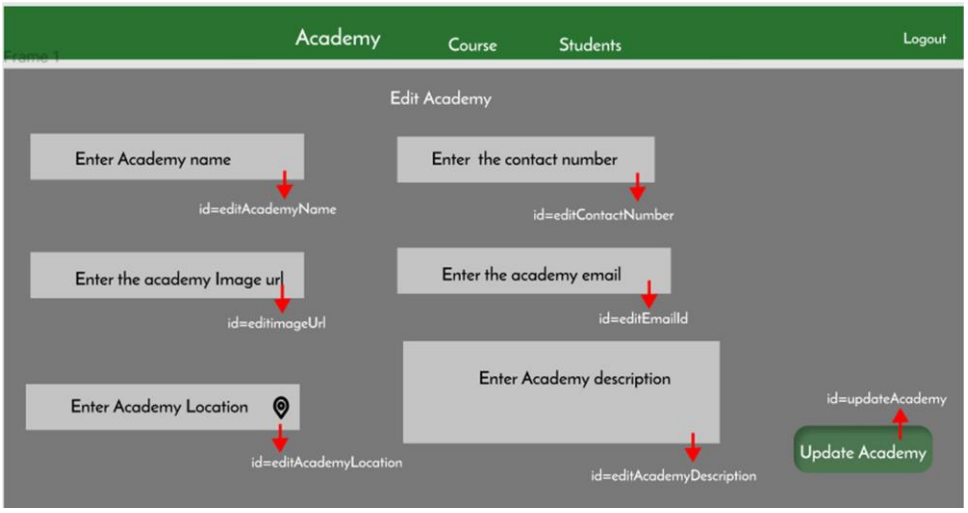




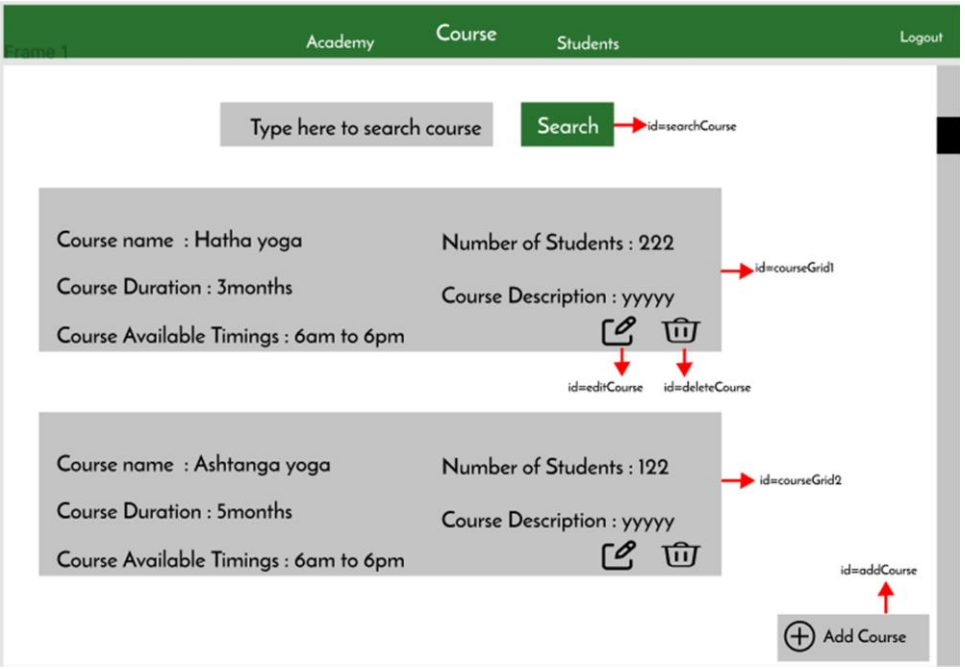
Add:



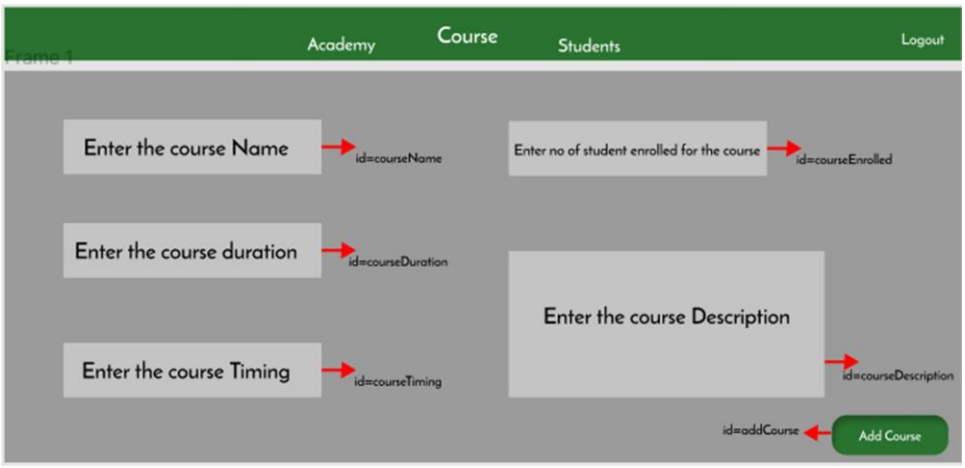
Edit:



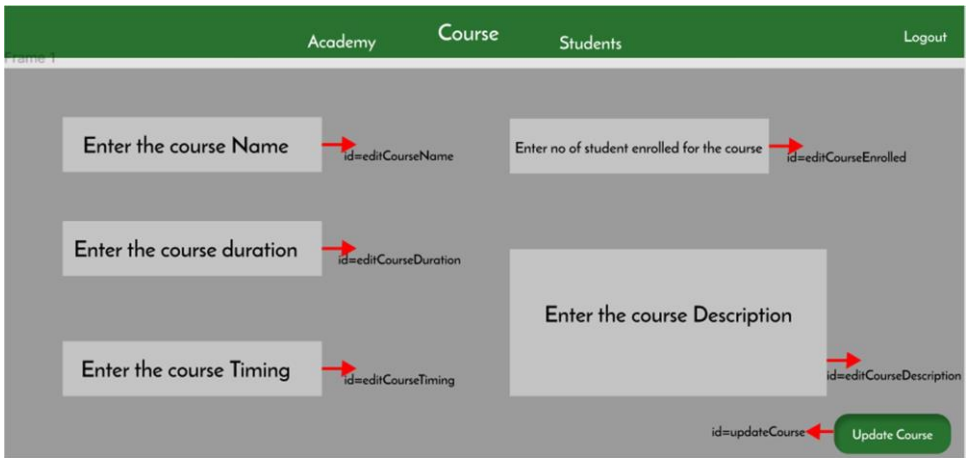
7. Admin Course: Design a component
    a. Ids: Refer to the screenshot below for the id details.
    b. Output Screenshot:



Add:



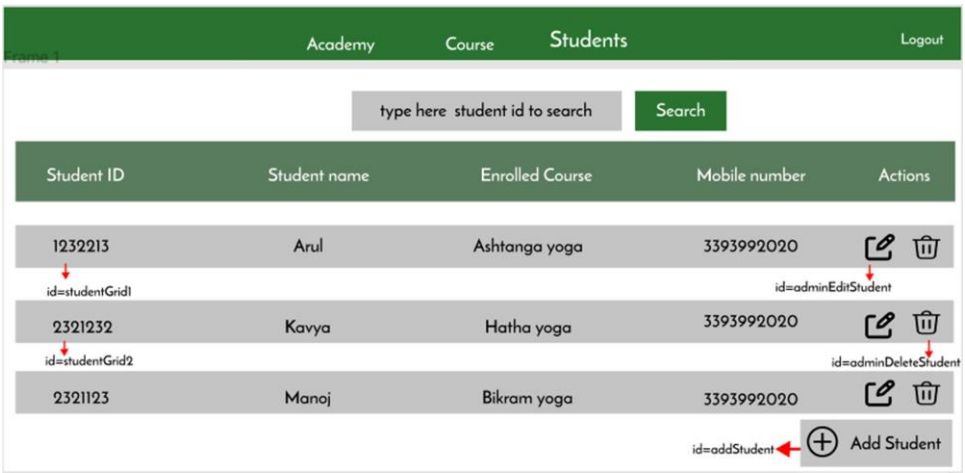
Edit:



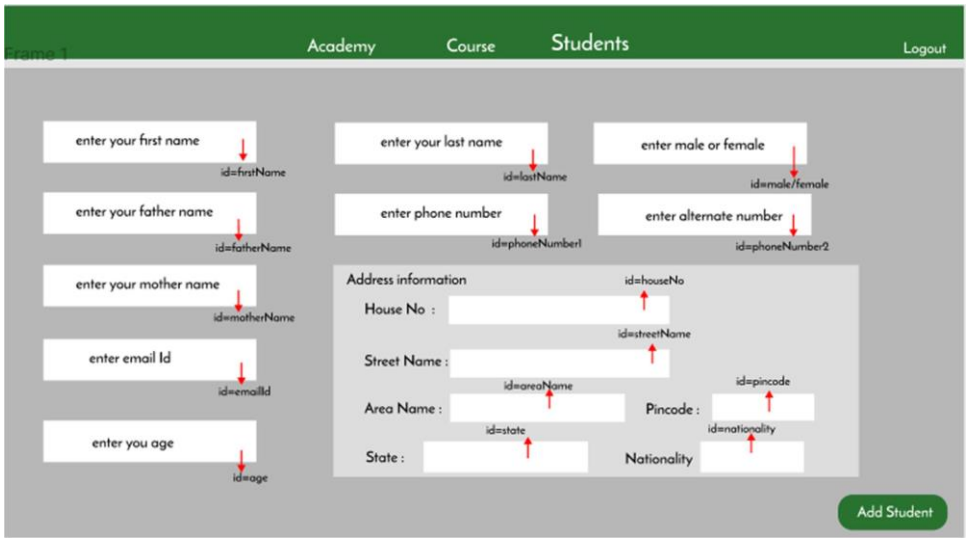
8. Admin Students: Design a component .In this component admin can edit and delete the students.

    a. Ids: Refer to the screenshot below for the id details.

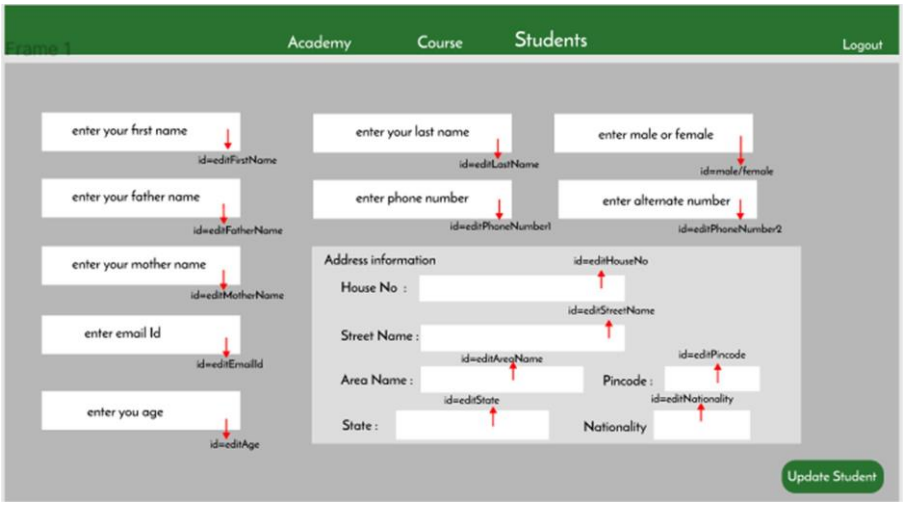
    b. Output Screenshot:



Add:


Frame 1
Academy
Course
Students
Logout
enter your first name
id=firstName
enter your last name
id=lastName
enter male or female
id=male/female
enter your father name
id=fatherName
enter phone number
id=phoneNumber1
enter alternate number
id=phoneNumber2
enter your mother name
id=motherName
Address information
id=houseNo
House No :
id=streetName
Street Name :
enter email Id
id=emailId
id=areaName
id=pincode
Area Name :
Pincode :
id=state
id=nationality
enter you age
State :
Nationality
id=age
Add Student

Edit:


Frame 1
Academy
Course
Students
Logout
enter your first name
id=editFirstName
enter your last name
id=editLastName
enter male or female
id=male/female
enter your father name
id=editFatherName
enter phone number
id=editPhoneNumber1
enter alternate number
id=editPhoneNumber2
enter your mother name
id=editMotherName
Address information
id=editHouseNo
House No :
id=editStreetName
Street Name :
enter email Id
id=editEmailId
id=editAreaName
id=editPincode
Area Name :
Pincode :
id=editState
id=editNationality
enter you age
State :
Nationality
id=editAge
Update Student

Backend:

Class and Method description:

Model Layer:

1. **UserModel**: This class stores the user type (admin or the customer) and all user information.
    a. Attributes:
        i. email: String
        ii. password: String
        iii. username: String
        iv. mobileNumber: String
        v. userRole: String
2. **LoginModel**: This class contains the email and password of the user.
    a. Attributes:
        i. email: String
        ii. password: String
3. **AdminModel**: This class stores the details of the admin.
    a. Attributes:
        i. email:String
        ii. password:String
        iii. mobileNumber:String
        iv. userRole:String
4. CourseModel: This class stores the details of the course
    a. Attributes:
        i. courseId: int
        ii. courseName: String
        iii. courseDescription: String
        iv. courseDuration: int
5. InstituteModel: This class stores the details of the Institute or College
    a. Attributes:
        i. instituteId: int
        ii. instituteName: String
        iii. instituteDescription: String

iv. instituteAddress: String
v. mobile: String
vi. email: String

6. Student Model: This class stores the details of the students.
   a. Attributes:
      i. studentId: int
      ii. studentName: String
      iii. studentDOB: Date
      iv. address: string
      v. mobile: String
      vi. Age:int

Controller Layer:

1. **AuthController**: This class control the user /admin signup and signin
   a. Methods:
      i. isUserPresent(LoginModel data): This method helps to check whether the user present or not and check the email and password are correct and return the boolean value.
      ii. isAdminPresent(LoginModel data): This method helps to check whether the admin present or not and check the email and password are correct and return the boolean value.
      iii. saveUser(UserModel user): This method helps to save the user data in the database.
      iv. saveAdmin(UserModel user): This method helps to save the admin data in the database.

2. **UserController**: This class helps to add/edit/view/delete admission process.
   a. Methods:
      i. addAdmission(StudentModel student, int courseId, int instituteId):This method adds new admission.
      ii. editAdmission(int admissionId): This method helps to edit admission details
      iii. viewAdmission(int admissionId): This method helps to view the admission details
      iv. deleteAdmission(int admissionId): This method helps to delete the admission
      v. ViewStatus(int admissionId): This method helps to view the status of the

admission.

3. AdminController: This class helps to add/edit/view/delete various details necessary with admission process.
    a. Methods:
        i. .addStudent(StudentModel student): This method helps to add student.
        ii. viewStudent(int studentId): This method helps to view student.
        iii. editStudent(int studentId): This method helps to edit student.
        iv. deleteStudent(int studentId) This method helps to delete student.
        v. addCourse(CourseModel course): This method helps to add course.
        vi. editCourse(int courseId): This method helps to edit course.
        vii. deleteCourse(int courseId): This method helps to delete course.
        viii. viewCourse(int courseId): This method helps to view course.
        ix. addInstitute(int instituteId): This method helps to add institute.
        x. editInstitute(int instituteId): This method helps to edit institute.
        xi. deleteInstitute(int instituteId): This method helps to delete the institute
        xii. ViewInstitute(int instituteId): This method helps to view the institute details

How to run the Project

Back End
API endpoint:
8080

Platform Guidelines:
To run the command use **Terminal** in the platform.

Spring Boot:
Navigate to the springapp directory => **cd springapp**
To start/run the application '**mvn spring-boot:run**'

To Connect Database Open Terminal
Cmd:mysql -u root –protocol=tcp -p
Password: examly

Front End
Step 1:
Open the terminal
Use “nvm use 14” command to change node version to 14

Step 1:
Use "cd reactapp" command to go inside the reactapp folder
Install Node Modules **- "**npm install**"**

Step 2:
Write the code inside src folder

Create the necessary components

Step 3:
Click the run test case button to run the test cases

Note :

- Click PORT 8081 to view the result / output
- If any error persists while running the app , delete the node modules and reinstall them