COMS 4156
Second Iteration Report

Team Members:

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1. **Github Repository**
   https://github.com/SoamyaAgrawal17/SAVS

2. **API Documentation**
   https://app.swaggerhub.com/apis-docs/ShikhaAsrani/SAVS/2#/

3. **Integration Testing Documentation**
   https://documenter.getpostman.com/view/14290543/UVR4PqZQ

4. **Unit Testing Report**
   Below are the user stories as per our project proposal.

Student

- **Signing up as a new user**
  Acceptance Test for pass cases:
  - Input would be all required and valid user information and the result expected would be that the student is able to sign up.

  Acceptance Test for fail cases:
  - Input would be invalid form field(s) such as invalid email address, missing name, etc and the result would be a descriptive error message informing users of the expected changes. The user would also not be able to register in this case.
  - Input would be valid form fields but already registered student ID or email address and the expected result would be that the user will get an error message saying that they're already registered.

- **View all events**
  Acceptance Test for pass cases:

- Input would be the Student ID and the expected result is that the user will receive a list of all upcoming events.
- Input would be a valid filter such as department, club, category, etc and the result would be a list of corresponding events.

Acceptance Test for fail cases:
- Input would be an invalid filter field such as invalid category, invalid date range, etc. and the result would be an error message informing the user about the invalid field.

- **Register for an event**
Acceptance Test for pass cases:
- Input would be the Event ID and Student ID and the result would be that the user gets registered for the event and the number of participants registered should get incremented.

Acceptance Test for fail cases:
- Input would be the Student ID and the Event ID for an already registered event and the result would be that the user is informed that they're already registered.
- Input would be the Student ID and the Event ID for which the user is not eligible and the result would be an error message informing the user about the eligibility criteria (college/department/club/maximum capacity).

- **View my registered events**
Acceptance Test for pass cases:
- Input would be the Student ID and the result would be the list of all past, upcoming, and cancelled registered events for this user.

Acceptance Test for fail cases:
- Input would be an invalid Student ID and the result would be an error message informing the user about the invalid Student ID.

- **Withdraw from a registered event**
Acceptance Test for pass cases:
- Input would be the Student ID and the Event ID and the result would be that the student is no longer registered for the event. The number of participants would be decremented.

Acceptance Test for fail cases:

- Input would be an invalid Event ID (unregistered event, past event, non-existent event) and the result would be an error message informing the user about the invalid Event ID.

- **Create a new club**
  Acceptance Test for pass cases:
  - Input would be all required and valid club information and the result expected would be that the student is able to create a new club. The student should be assigned as the Club Head for this club.

  Acceptance Test for fail cases:
  - Input would be invalid club information (missing information, invalid field value, duplicate club name) and the result would be an error message informing the user about the invalid information.

- **View all clubs and my roles**
  Acceptance Test for pass cases:
  - Input would be Student ID and the result expected would be a list of all clubs and their corresponding role in that club.

  Acceptance Test for fail cases:
  - Input would be an invalid Student ID and the result would be an error message informing the user about the invalid Student ID.

Club Member
All test cases for students also apply for a club member.

- **Propose an Event**
  Acceptance Test for pass cases:
  - Input would be all required and valid event information and the result expected would be that the club member is able to create a new event. The event should have status as "Proposed".

  Acceptance Test for fail cases:
  - Input would be invalid event information (missing information, invalid field value, invalid club name, club of which the user is not a member) and the result would be an error message informing the user about the invalid information.

- **Edit event**

Acceptance Test for pass cases:
- Input would be Event ID and allowed editable field values, and the result expected would be the event gets updated with new values.

Acceptance Test for fail cases:
- Input would be invalid field values (invalid field value/non-editable field value), and the result would be an error message informing the user about the invalid information.
- Input would be an invalid Event ID (event not proposed by the user, past event, non-existent event), and the result would be an error message informing the user of the reason for the invalid Event ID.

- **See all the events I proposed**
Acceptance Test for pass cases:
- Input would be the Student ID and the result expected would be a list of events that the user proposed and their corresponding status.

Acceptance Test for fail cases:
- Input would be an invalid Student ID, and the result would be an error message informing the user about the invalid Student ID.

Club Head
All test cases for club members and students also apply for a club head.

- **Edit club details**
Acceptance Test for pass cases:
- Input would be any permutation of valid club information and the result expected would be that the club details are changed.

Acceptance Test for fail cases:
- Input would be invalid club information (missing information for the head, invalid club name) and the result would be an error message informing the club head about the invalid information.
- Any club member trying to edit details of the club

- **Delete club**
Acceptance Test for pass cases:
- Input would be the club name and the expected result is that the club is deleted along with any members of the club.

Acceptance Test for fail cases:
- Trying to delete a club that doesn't exist.
- Any club member trying to delete the club.

- **Replace me with the next head**
Acceptance Test for pass cases:
- Input would be the club name and name of the new head(who is a student), the expected result is that the clubhead is changed. The old head loses the rights of the club head, and the new head has the rights of the club head.

Acceptance Test for fail cases:
- Input would be invalid club information (invalid club name) or invalid head information(not a member of the club) and the result would be an error message informing the club head about the invalid information.
- Trying to assign the head of a club that the user is not head of.
- Any club member trying to change the head of the club.

- **Add member**
Acceptance Test for pass cases:
- Input would be valid club information (club id or student id), the expected result is that the member has the rights of a club member.

Acceptance Test for fail cases:
- Input would be invalid information (invalid club id or invalid student id) and the result would be an error message informing the club head about the invalid information.
- Trying to add a member who is not a student.
- Add the club member to a club that doesn't exist.

- **Remove member**
Acceptance Test for pass cases:
- Input would be valid club information (club id or student id), the expected result is that the member no more has the rights of a club member.

Acceptance Test for fail cases:
- Input would be invalid information (invalid club id or invalid student id) , and the result would be an error message informing the club head about the invalid information.

- Trying to delete a member who is not a member of the club.
- Trying to delete a member from another club.

- **Approve/Reject events**

Acceptance Test for pass cases:
- Input would be valid event_id and status approve /reject, the expected result is that the event if approved appears in the list of events to students, and if rejected does not appear in the list.

Acceptance Test for fail cases:
- Input would be invalid information (invalid event id or invalid status), and the result would be an error message informing the club head about the invalid information.
- Trying to edit an event from another club.

- **Delete event**

Acceptance Test for pass cases:
- Input would be valid event_id, the expected result is that the event does not appear in the list anymore and any registrations associated with the event are deleted too.

Acceptance Test for fail cases:
- Input would be invalid information (invalid event id), and the result would be an error message informing the club head about the invalid information.
- Trying to delete an event from another club.

5. **Multiple user functionality**

Our API supports sign in through Google to support multiple users.

The functionality of the application can be extended to multiple users and use cases. Below are some use cases where this application could be extended:
- In a classroom setting, TAs could be equivalent to Club Members and Instructor could be equivalent to Club Head. The functionality could be for students, TAs and Instructors to create and manage assignments for the course.
- An event scraper could use our APIs to retrieve information regarding events and clubs.
- The application is agnostic to organization and can be extended to other universities, schools, companies looking to manage clubs and events.