

precedented :: Vishwaa Sofat, Kazi Jamal, Eric Lau, Raymond Lee, and Ahmed Sultan
SoftDevI pd9
P05 — Fin
2020-06-11

caerus by precededented

Roster and Roles

- **Vishwaa “PM” Sofat:**
 - Project management
 - Set milestones, and track progress of team
 - Updating design doc
 - Devlog maintenance
 - UI/UX assistance
- **Kazi Jamal:**
 - Opportunity bulletin
 - Scholarship finder
 - Additional backend work
 - Droplet deployment
- **Eric “Morty” Lau:**
 - OAuth
 - Accounts
 - Reminders/notifications and emailing
 - Routing
 - Droplet deployment
 - Form submission
- **Raymond “ray. lee.” Lee:**
 - Opportunity bulletin
 - Scholarship finder
 - Unit-testing
- **Ahmed “mittfard” Sultan:**
 - UI/UX
 - Favorites/Productivity
 - Form submission

Project Description

caerus is a website based off of Mr. Blumm's weekly Opportunity Bulletin, where students at Stuyvesant can search through a database of opportunities, internships and scholarships curated by Mr. Blumm and the Stuyvesant faculty.

Frontend Framework

We will be using Bootstrap as our frontend framework, as we have all used it extensively and are comfortable with it.

Project Features

Yellow - Features Accomplished as of 8AM on 06/16/20

Components

- **ACCOUNTS**

- Administrator accounts
 - Add opportunities/scholarships/resources
 - Add a single opportunity
 - Add multiple opportunities with a CSV file
 - Edit opportunities/scholarships/resources
 - Moderate opportunities/scholarships
 - View/review resumes and applications submitted
- Alumni accounts
 - Share opportunities/scholarships, to be approved and posted by an administrator
 - Can't view opportunities/scholarships
 - View/review resumes and applications submitted
- Teacher accounts (access based on list from StuyActivities.com)
 - Add opportunities/scholarships/resources
 - Edit opportunities/scholarships/resources
 - Can view opportunities/scholarships/resources
- Student accounts (access based on stuy.edu accounts as matched with list from StuyActivities.com)
 - View opportunities/scholarships/resources
 - Share opportunities/scholarships, to be approved and posted by an administrator
 - Perhaps a link to Google Form to suggest new opportunities
- *Managed via OAuth (admin, teacher, student)/custom (alum)*

- **OPPORTUNITY BULLETIN**

- Search/filter/sort by...
 - Tags, deadlines/date, requirements, etc.
- Pagination
- Allow students to 'favorite' opportunities they are interested in
- Allow administrators, teachers, alumni to post opportunities for students
- **Individual opportunities**
 - Basic information about the opportunity: deadlines, requirements, etc.
 - Student feedback section about process and experience
 - Extra features
 - How many people have applied in the past?
 - How many have been accepted? etc.

- **SCHOLARSHIP FINDER**

- Search/filter/sort by...
 - Tags, deadlines/date, requirements, etc.
- Allow students to 'favorite' scholarships they are interested in
- Allow administrators, teachers, alumni to post scholarships for students
- **Individual scholarships**

- Basic information about the scholarship: deadlines, requirements, amount of \$, etc.
- Student feedback section about process and experience
- Extra features
 - How many people have applied in the past?
 - How many have been accepted? etc.
- **FAVORITES/PRODUCTIVITY**
 - Save opportunities/scholarships (kind of like Pocket/Trello)
 - To-do lists can be created for each opportunity/scholarship to remain on track *(if we have time)*
- **REMINDERS/NOTIFICATIONS**
 - Automated emails
 - Provide users with reminders for deadlines of opportunities/scholarships they have 'favorited'
 - Customized 'weekly update' of things added throughout the week
 - Users can select what filtered tags they want to be sent as per Preferences page
- **RESOURCES**
 - Links and descriptions for helpful resources
- **STUDENT COLLABORATION**
 - Student-to-student/peer-to-peer forum for collaboration, to get teams for projects, and organizations
- **RESUME/APPLICATION REVIEW**
 - Can make posts for feedback from alumni/administrators

Database Schemas

Users

- User
 - userID : String primary_key
 - email : String
 - name: String
 - imglink : String
 - userType: String
 - accessToken : String or NULL
 - refreshToken: String or NULL

Opportunities

- Opportunity
 - opportunityID: Integer primary_key
 - title: String
 - description : Text
 - field: String
 - gender: String or NULL
 - location: String or NULL
 - startDate: DateTime or NULL
 - endDate: DateTime or NULL
 - deadline: DateTime or NULL

- cost: Float
 - datePosted: DateTime
- OpportunityGrade
 - opportunityGradeID: Integer primary_key
 - opportunityID: Integer
 - grade: Integer
- OpportunityLink
 - opportunityLinkID: Integer primary_key
 - opportunityID: Integer
 - link: String

Scholarships

- Scholarship
 - scholarshipID: Integer primary_key
 - title : String
 - description : Text
 - amount: Float
 - deadline: DateTime
 - eligibility: String
 - datePosted: DateTime
- ScholarshipLink
 - scholarshipLinkID: Integer primary_key
 - scholarshipID: Integer
 - link: String

Saved

- SavedOpportunity
 - savedOpportunityID: Integer primary_key
 - userID: String
 - opportunityID: Integer
 - reminderDate: DateTime or NULL
- SavedScholarship
 - savedScholarshipID: Integer primary_key
 - userID: Integer
 - scholarshipID: Integer
 - reminderDate: DateTime or NULL

Resources

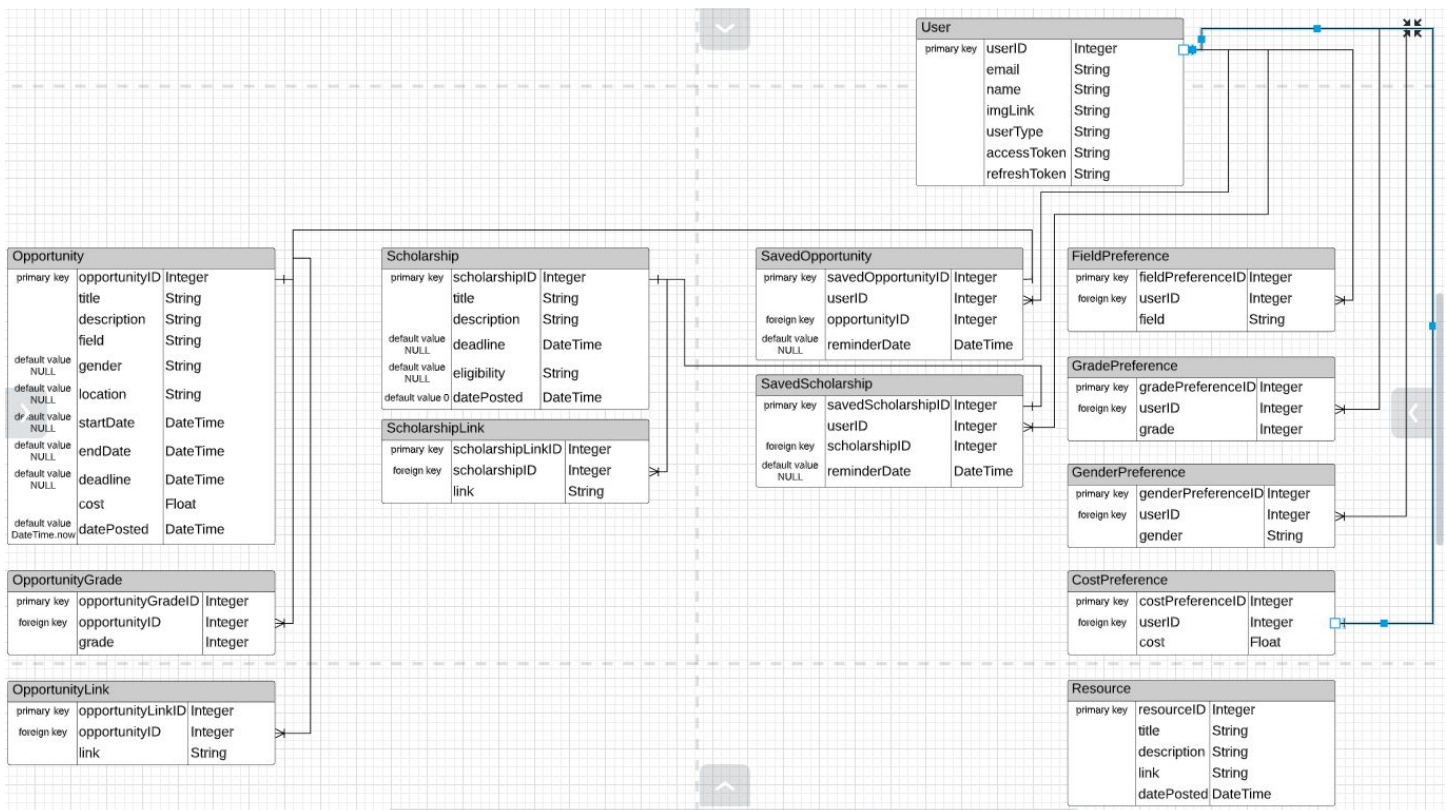
- Resource
 - resourceID: Integer primary_key
 - title: String
 - description : Text
 - link: String
 - datePosted: DateTime

Preferences

- FieldPreference

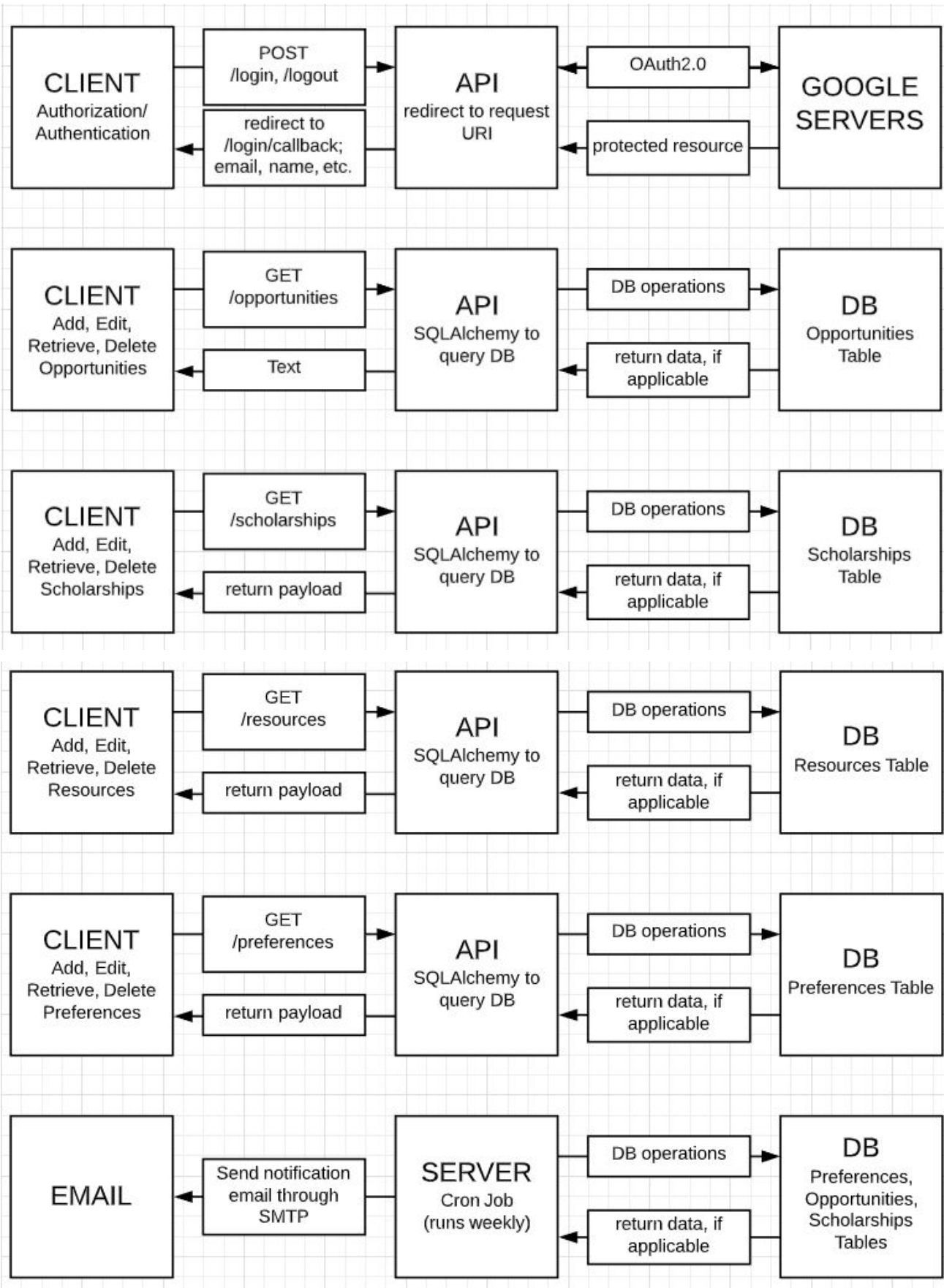
- fieldPreference: Integer primary_key
 - userID: String
 - field: String
- GradePreference
 - gradePreferenceID: Integer primary_key
 - userID: String
 - grade: Integer
- GenderPreference
 - genderPreferenceID: Integer primary_key
 - userID: String
 - gender: String
- CostPreference
 - costPreferenceID: Integer primary_key
 - userID: String
 - cost: Float

<https://app.lucidchart.com/invitations/accept/d660ed01-9c0c-4abe-87fd-ef794ba29dfe>



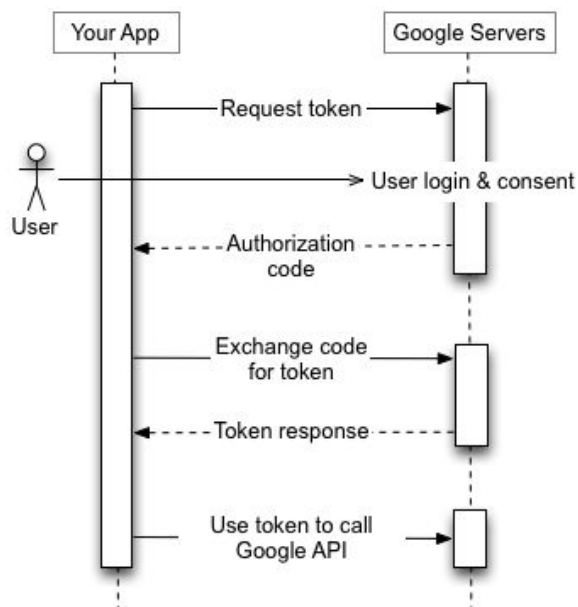
Component Map

<https://app.lucidchart.com/invitations/accept/2332b742-e4fd-4d7a-94c8-712c206354d5>



How OAuth2.0 will work behind the scenes:

<https://developers.google.com/identity/protocols/oauth2>



Site Map

<https://app.lucidchart.com/invitations/accept/0e84ea7f-ad71-4583-b985-818f9a771d88>

