#YoNoMeCuelgo
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1. Introduction

UPRM students often obtain bad grades because they don't know to ask for help o because trying to find a tutor o study groups is difficult. For tutors, the only available source of information, in terms of finding them, is by luckily coming across a piece of paper posted on a wall or bulleting board throughout campus.

#YoNoMeCuelgo is a web and mobile applications that will facilitate the communication between students and tutors at the UPRM campus. Considering that there are students who prefer to form study groups with fellow classmates instead of going to the tutors, the application will also allow just that: Students will be able to create groups with other classmates in order to obtaining their contact information and establish a form of communication between themselves.

The app, as mentioned before, will be available for web and mobile because we want to be able to reach all possible users. Some students or tutors might not have access to a computer, rendering the web useless. Therefore, we decided to do both. This way, those users who prefer to use computers will have the same access to the application as those users who prefer to use mobile devices.

The application will be developed in HTML, CSS, JavaScript, Angular Material, mySQL, Java Play, and Firebase Cloud Messaging.

2. Client App Description

The client side of the web app will be developed using HTML, Angular Material Design, and Bootstrap. It should comply with the following capabilities:

1. Students and Tutors will be asked to sign up the first time they use the app
2. Tutors will be able to choose which courses they can help in and if they are available
3. Students will be able to join the courses they are currently taking
4. Once they join the course, Students are able to search for tutors and see their contact information
5. In the courses, Students will also be able to create and/or join groups for either studying, projects, or others
6. Within the groups, Students will be able to see the contact information of others in the group
7. Students will be able to pay the tutors (donation)

3. Server Side Description

For the authentication system, everybody can request to sign up to the application using an email address; then, after Firebase Cloud Messaging validates the email, we ensure that it belongs to an upr.edu domain. If it fulfills the mentioned

requirement, Firebase Cloud Messaging will send an email verification link to the user email account and finish the authentication process.

Once logged in, if it is a new user, we ask if it is a student or a tutor and we store its settings, such as name, picture, groups (only for students), and phone number (only for tutors), on an SQL table.

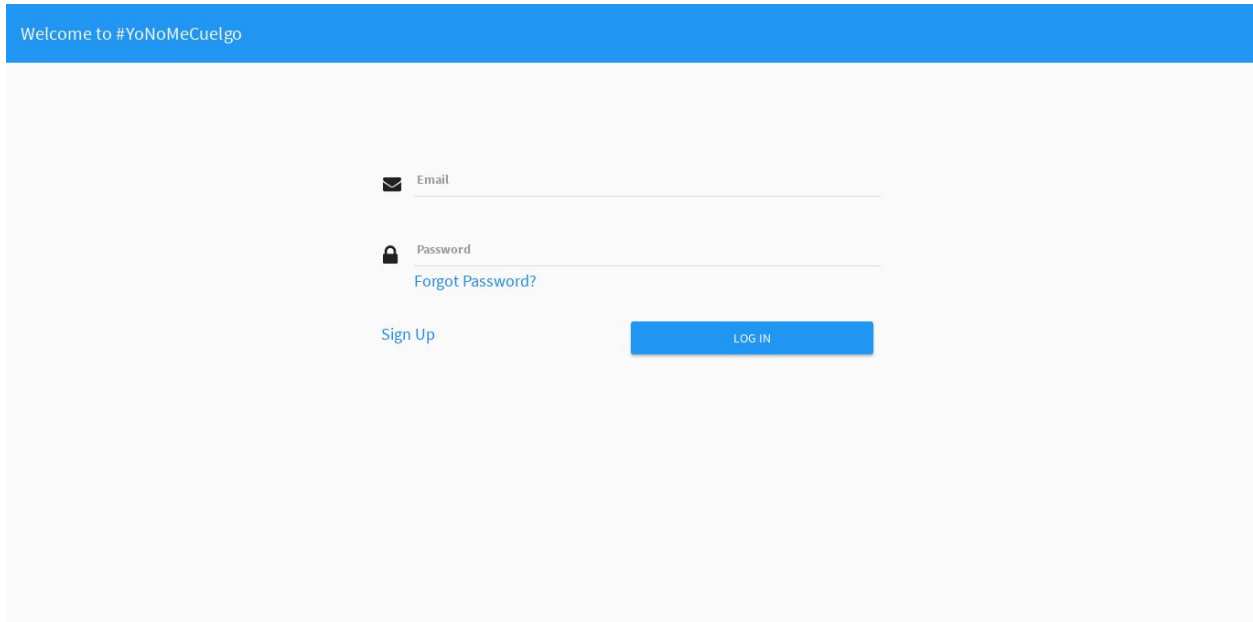The application will contain a Firebase Cloud Messaging table for user authentication and the following SQL database tables:

1. Users
2. Students
3. Tutors
4. Student Settings
5. Tutor Settings
6. Undergrad Courses
7. Student Courses
8. Student Groups
9. Tutor Reviews
10. Tutor Courses

We will use Java Play for the model, while AngularJS will do the controller job. This process will consist of retrieving the SQL data as a JavaScript Object Notation(JSON) using AJAX requests.
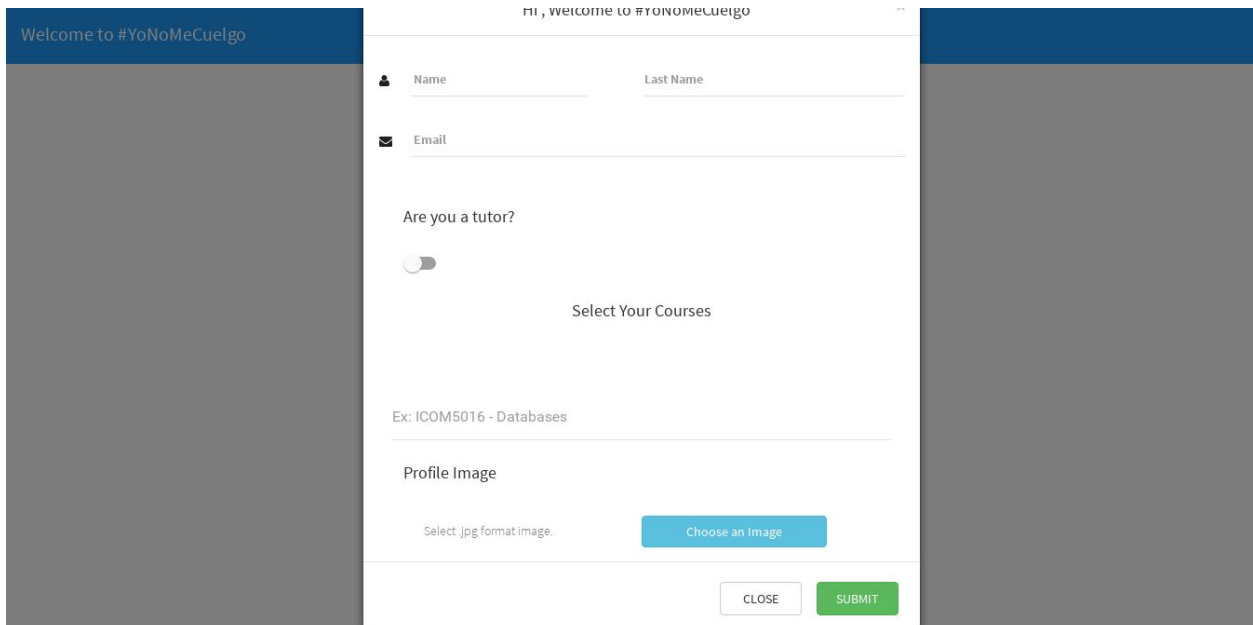
4. ER Diagram
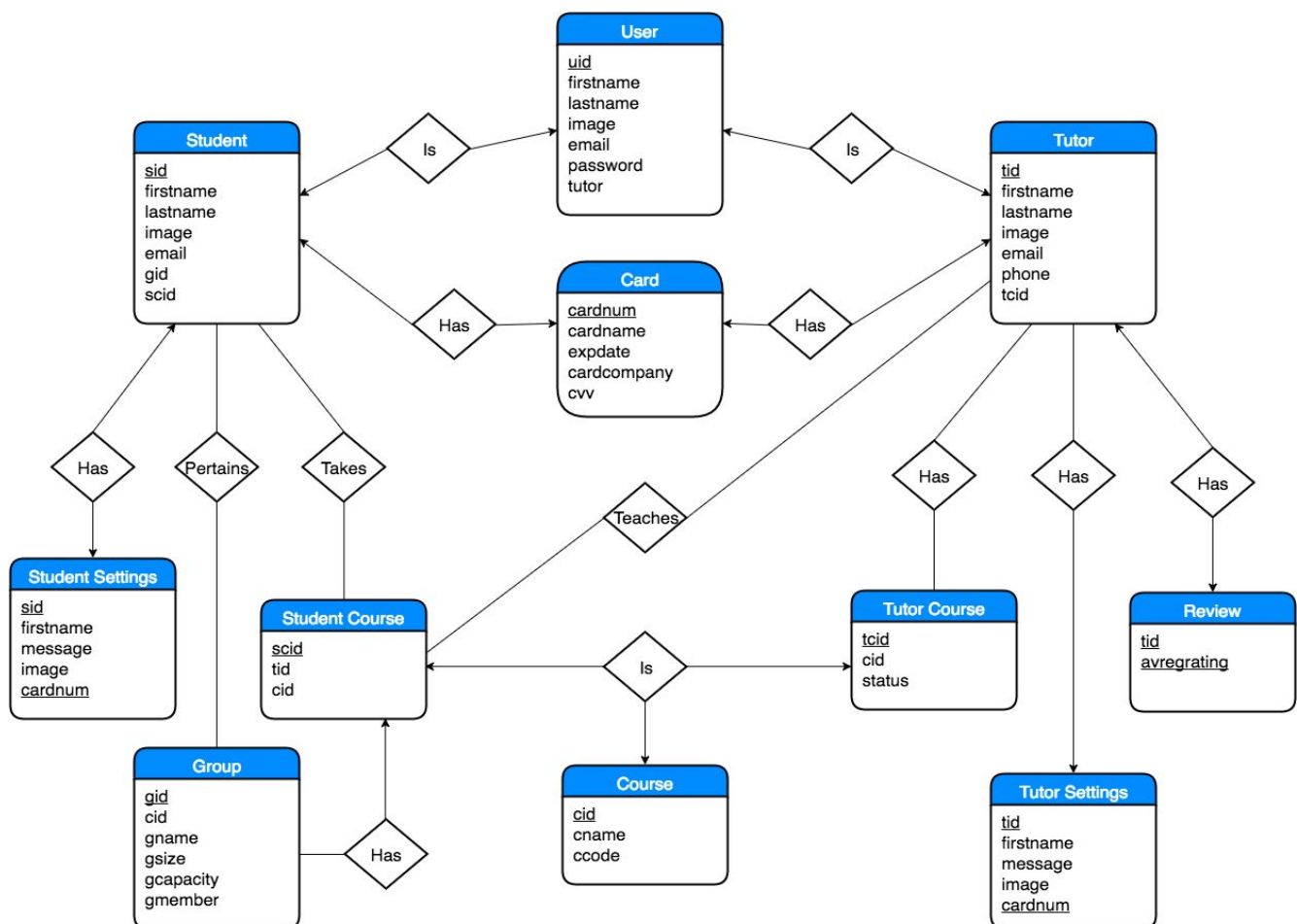
5. Client-Side Screenshots

Log in/Sign up page. You can either sign up as a tutor or as a student. You can only log in/sign up with a valid @upr.edu e-mail. Logging in will redirect the user to their home page and signing up will open up a modal (screenshot below).

Sign up modal. You can input basic profile information, like name, email, photo, and whether or not you are a tutor or a student. If you are a student, you will need to input all the classes you are currently taking or want help in. If you are a tutor, you can input the classes you are planning on helping with.
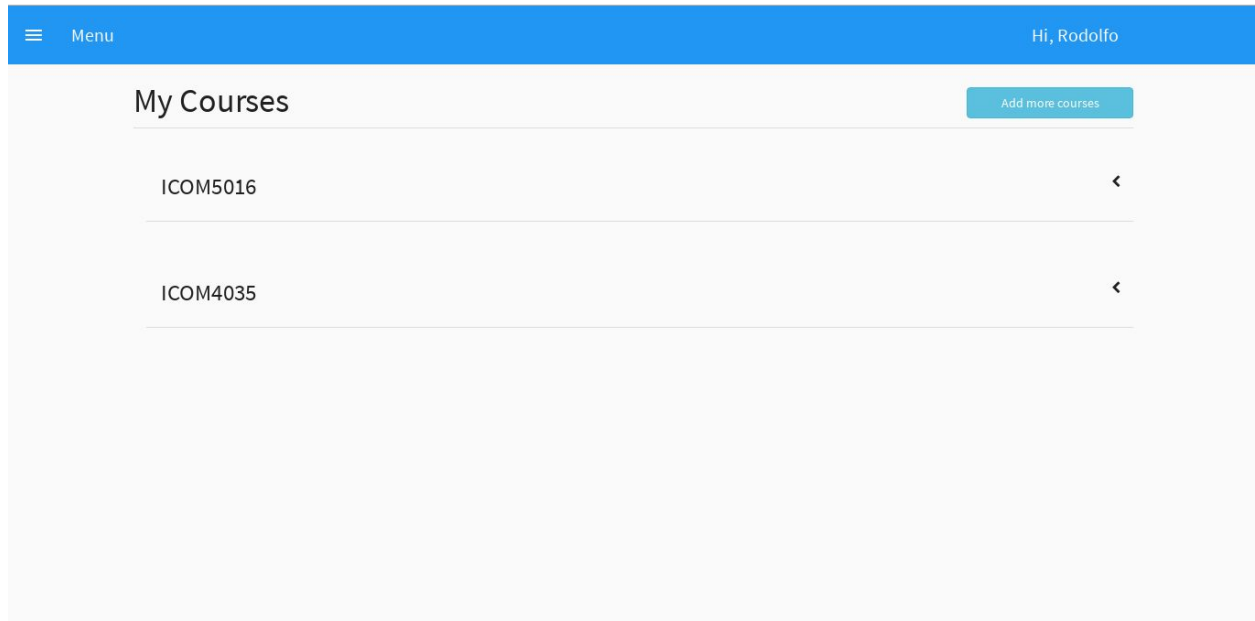
Tutor courses page. This page also acts as the main page for the Tutor. Here the tutor can manage the courses they tutor in. As in: remove them, select whether they're available or not to give tutoring for a respective course, and add more courses to tutor.
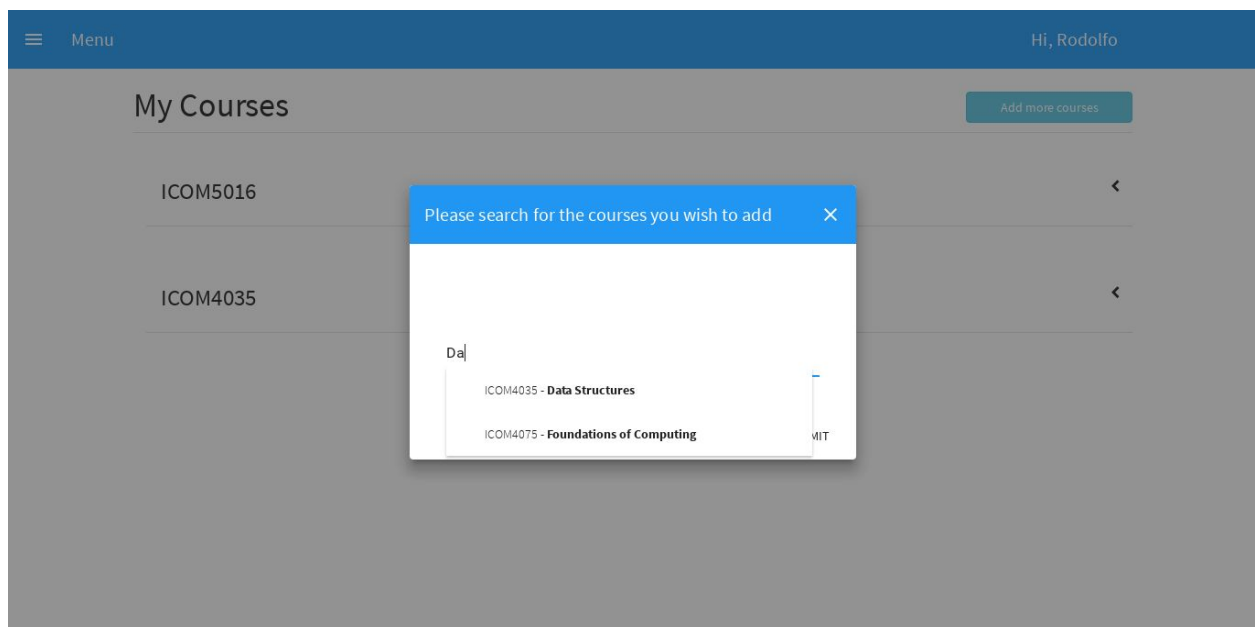
The "add more courses" button in the tutor courses page will show you a dialog box where you can search for other courses and choose the ones you want to add to your list.

Student home page. Here the student have an overview of what they currently have going on. There is a countdown for specific event chosen by the user. Additionally, the student can see some of the courses that they are enrolled in and what groups are they participating in currently. Clicking either of these last two will redirect you to a respective page where the student can view more details about each.


In order to set the countdown clock to your next deadline, a calendar date chooser will appear. After choosing the new date, you will be able to change the name of the deadline with a simple text input container.
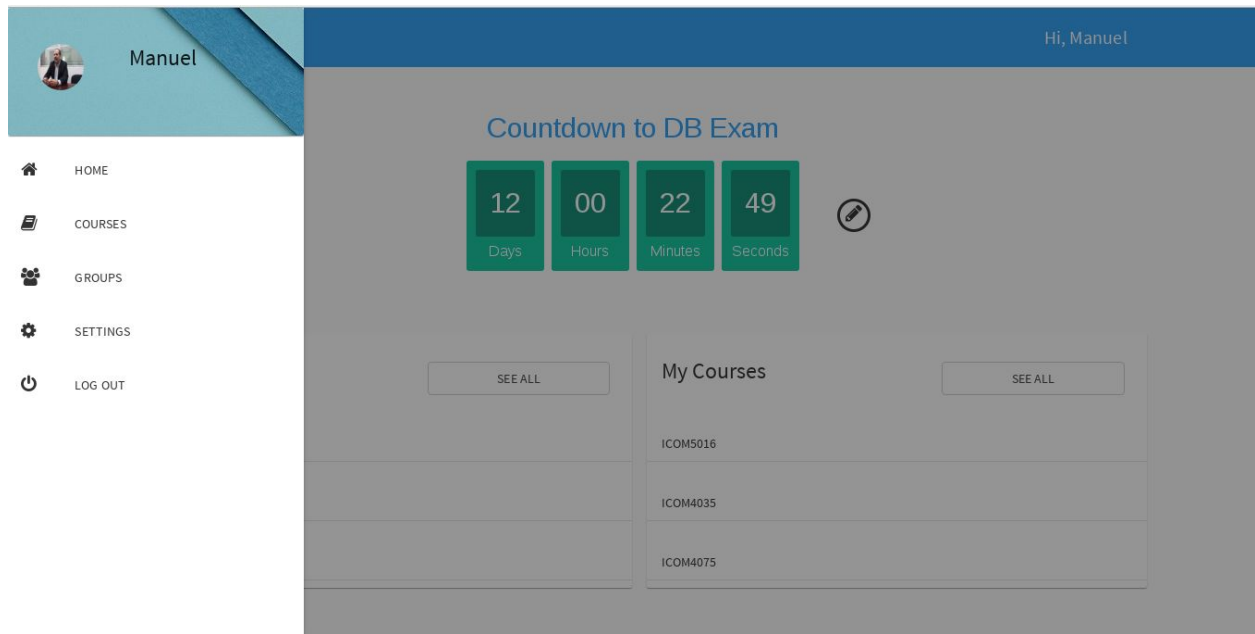
Student left side view bar. This bar contains basic info about the student profile: profile image and name. Here the student can also log out of their account and redirect themselves back to either their home-page, their courses page, their group page or edit their profile settings.
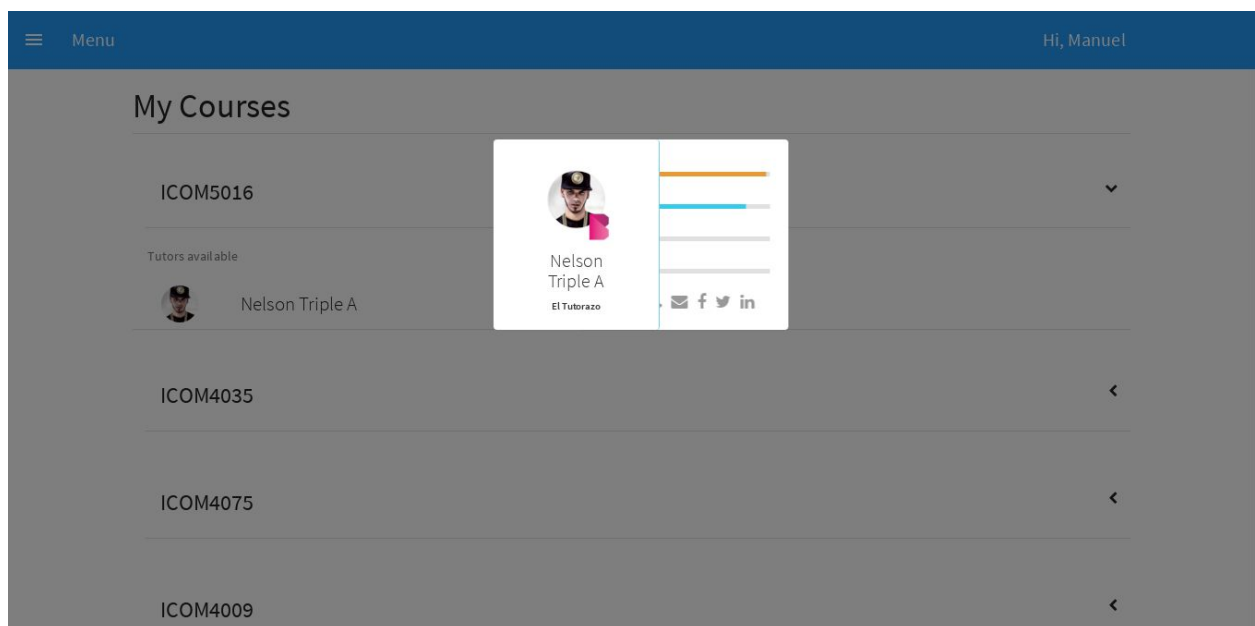
Student courses page. You will be able to check which tutors are available for each course, as well as access some basic contact information, social media, and their ratings in different educational fields.
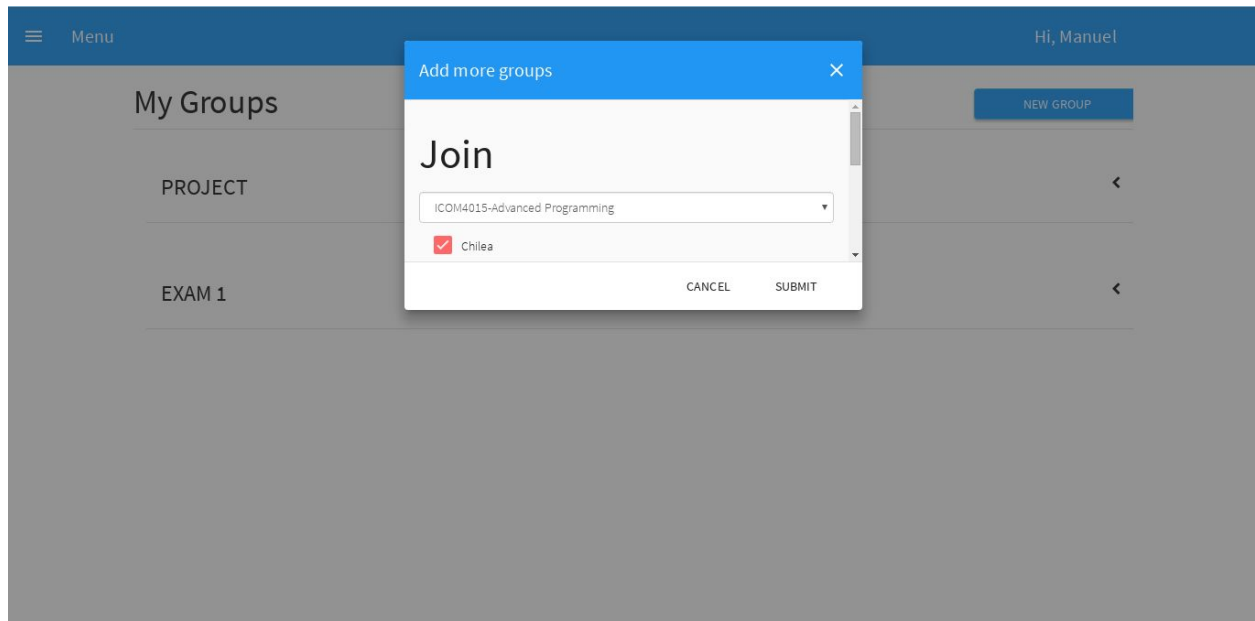
Student groups page - add more groups dialog. This dialog lets the student join available groups for the courses that they are currently enrolled in.
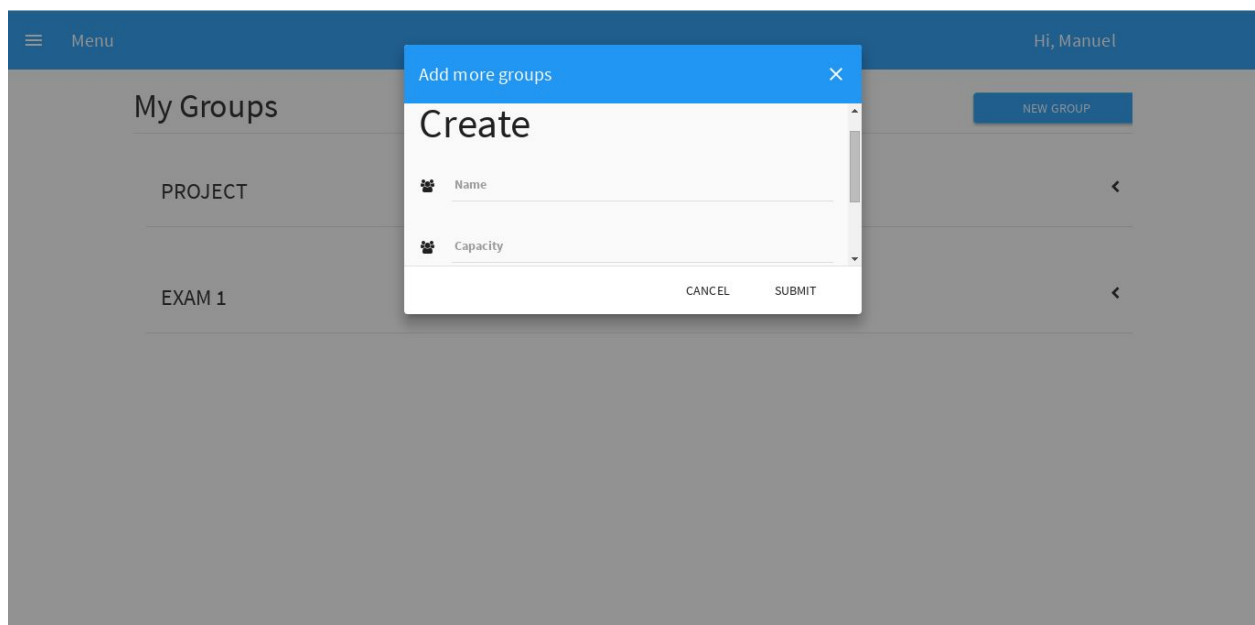
Student groups page - add more groups dialog. Students will also be able to create their own groups for others to join.

Settings page. In this page the user can modify their profile settings: change profile image, name as viewed in left side view bar or their personal message.