School Tutoring Web App

By Abdul Alzaid

Jan 19th 2016

Content

- Project Description
- Justification
- User’s Point of View
- Operations Description
- Technologies
- Development Schedule

Project Description

The School tutoring web application will allow students and tutors to register for accounts. Then, the student can post a full description of the job, which can be listed as (Math, English, History, etc.,) and upload files when necessary for all tutors to see. Then, tutors can propose to the student to help him/her with the job, and from there the student after reviewing the tutor's profile can assigns the job to the desired tutor. Both the student and tutor can communicate with each other by sending real-time messages. When the tutor is finished he/she can post back the files with their helpful notes included and mark the job as done.

Targeted Audience: Students in all levels, and any qualified tutors.

Justifications

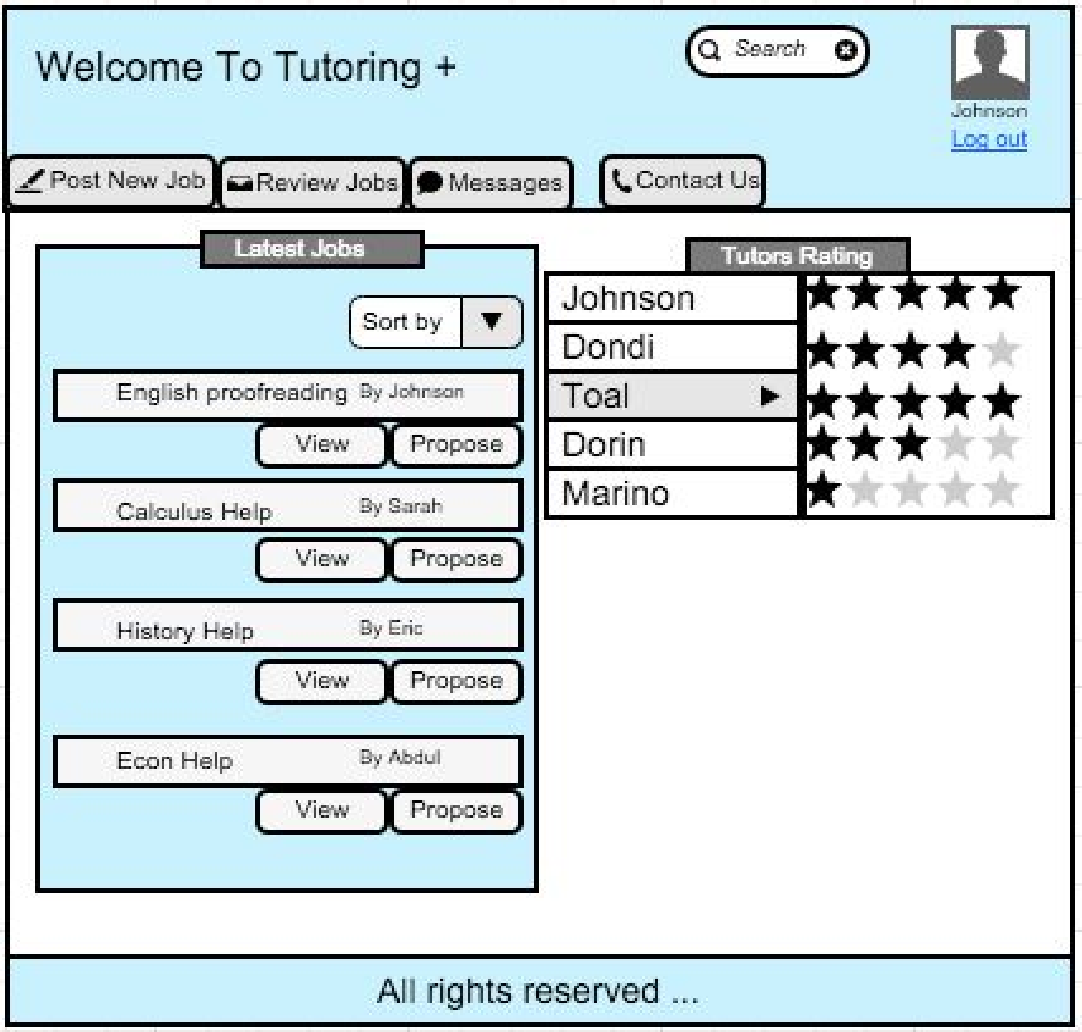
Why this project is acceptable for this semester?

- Will demonstrate my knowledge in technologies and languages that I learned.
- Will allow me to work with Cloud Database.
- Will be a full stack project (frontend/backend.)
- Technical difficulty is moderate (manageable.)
- Expands on/or solves the problem with Academic Resource Center.
  - Saves students plenty of time.
  - Accessible at any time on any platform.
  - Wide range of subjects & Competitive tutors in various fields. (CMSI, Math, History, Physics, etc.)

User’s Point of view

Responsive web application (smartphones, tablets, PCs)

UI Main Page mockup After Sign in



English proofreading By Johnson

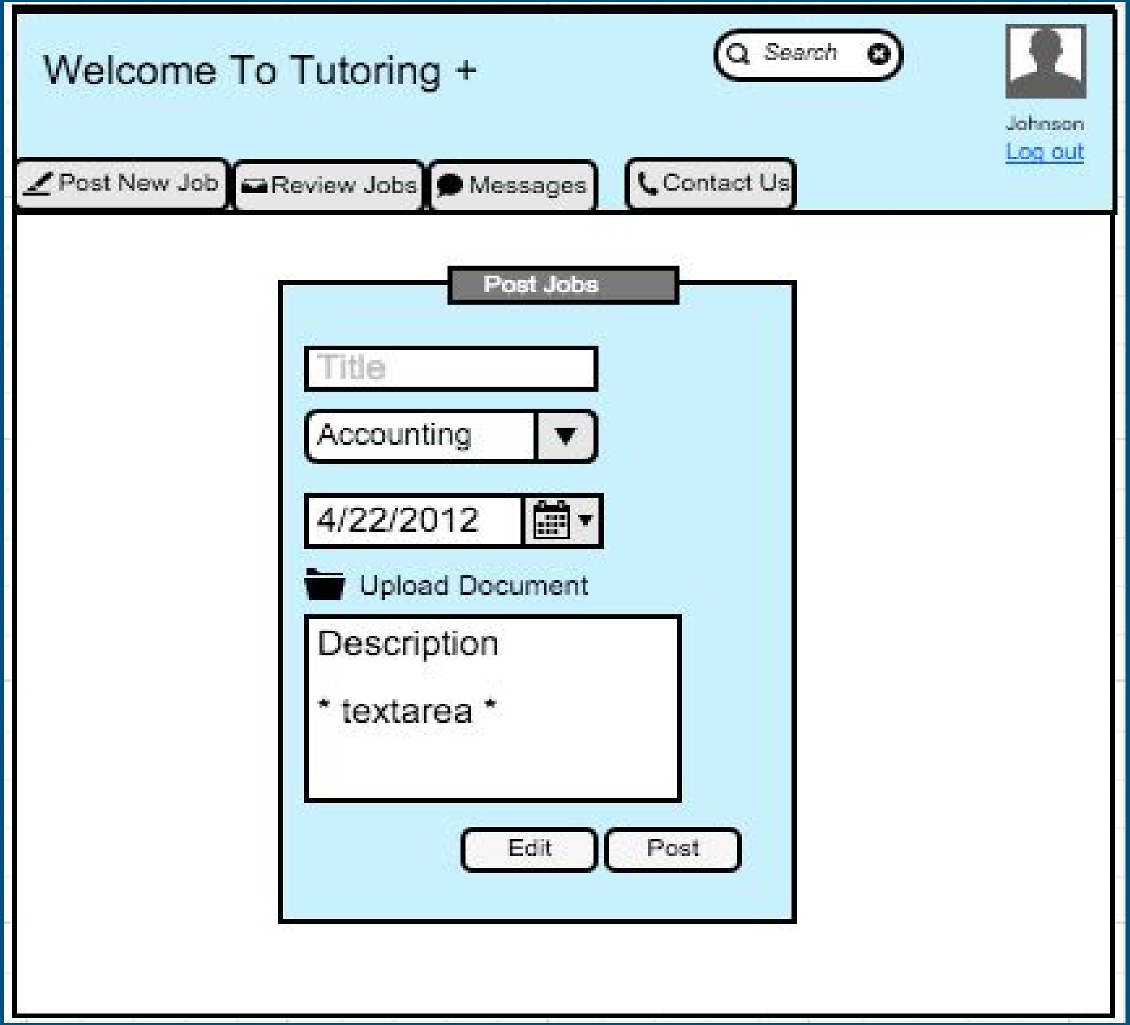
Calculus Help By Sarah

History Help By Eric

Econ Help By Abdul

Johnson	★★★★★
Dondi	★★★★☆
Toal ▶	★★★★★
Dorin	★★★☆☆
Marino	★☆☆☆☆

Posting Page mockup for Students



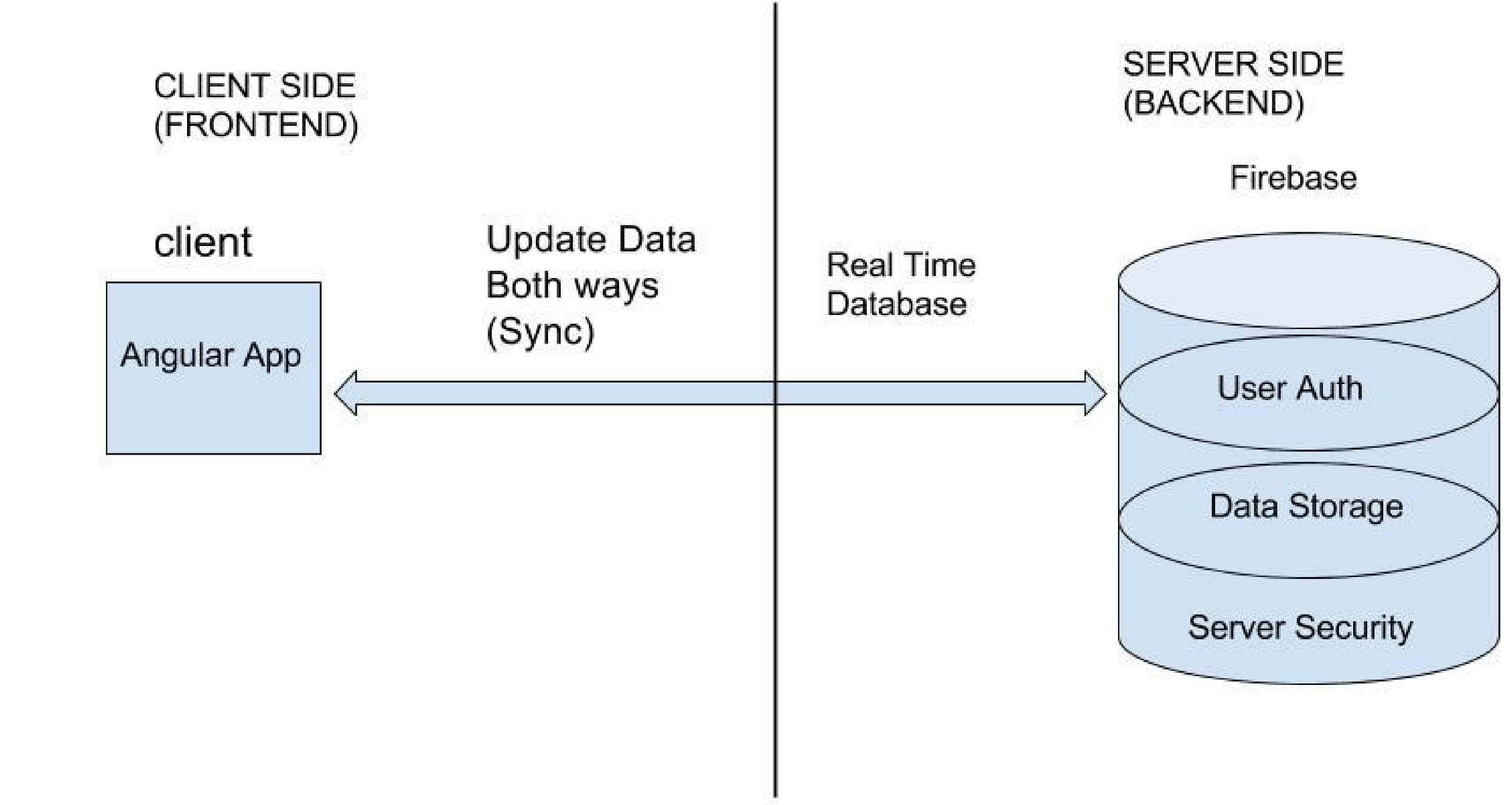
Operations Description

The project will include:

3 types of users:

1. Student (create account [profile], post jobs, message tutors, assign jobs to tutors, and rate tutor’s work)
2. Tutor (create account, list specialities and years of experience, write bio, propose to do jobs, message students, submit back, and mark jobs as complete)
3. Admin (manage users and data)

Operations Description



Technologies

Frontend section:

- JavaScript (AngularJS 2.0)
- HTML5 and SASS (maybe bootstrap)

Backend section:

- Google Firebase
  - Uses REST API
  - Stores & sync data with NoSQL Cloud Database
  - Uses JSON formated data
  - Uses realtime connection with all clients

Preliminary Development Schedule (milestones)

- Creating tutor accounts including their full profile.
- Writing security rules for users (admin, tutor, and student) (by Jan 25th).
- Proposing to do a job.
- Assigning jobs to tutors.
- Realtime messages.
- Monetization (handling payments.)

Questions?