Boiler Schedule

Product Backlog

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Problem Statement

Google Calendar is one of the most popular tools Purdue students use to keep track of their classes and assignments. After registering for new courses each semester, students have to manually add each course to the service, and during the semester, spend countless hours inputting homeworks, midterms and projects. We propose a web application that allows students to have seamless integration between their Google Calendar app, and course schedules on myPurdue. Along with an easy and quick UI that allows them to input homeworks, quizzes and exams.

Background Information

Students at Purdue are busy. They need to spend all their time for attending the lectures, review the class material, prepare for the exams and participate in club activities. Every second in the college life is important. Currently, there is no way for Purdue students to add their daily class schedule to a calendar easily, and update/add assignments and midterms. They have to add their class schedule one by one to Google Calendar and then spend countless amount of time formatting and color coding all the different assignments. We propose a web application to address this problem. “Boiler Schedule” will help them to build their calendar in minutes. Along with providing security and easy editing.

Environment

We will be using Bootstrap (HTML/CSS/JS) for the front-end design, C#/JavaScript for all relevant business logic and Node/Express for the backend systems (EJS). Our database system will be SQLite, and we will be using heroku to deploy and run our app. For our login, we will use Google Authentication API and SAML for linking with our Purdue accounts.

Requirements

Functional

Backlog ID	Functional Requirements	Hours	Status
1	As a user, I would like to be able to sign into Boiler Schedule with my Google account.	2	Planned for Sprint 1
2	As a user, I would like to be able to connect my Purdue account with my Boiler Schedule.	4	Planned for Sprint 1
3	As a user, I would like to be able to fetch course data for all my registered courses on MyPurdue.	4	Planned for Sprint 1
4	As a user, I would like to add other information along with the fetched courses from my MyPurdue account.	3	Planned for Sprint 1
5	As a user, I would like to add the courses schedule and additional information to my Google Calendar.	6	Planned for Sprint 1
6	As a developer, we have standard object across the stack	2	Planned for Sprint 1
7	As a user, I would like to have seamless integration between my class schedule and my Google Calendar.	4	Planned for Sprint 2
8	As a user, I would like to update my class schedule on my Google Calendar in real time.	4	Planned for Sprint 2
9	As a user, I would like to have an easy to use calendar viewer that allows me to add any events such and homeworks and tests	6	Planned for Sprint 2
10	As a user, I would like to have an easy to use Google Authentication page	2	Planned for Sprint 2
11	As a user, I would like to have an easy to use Purdue Authentication page	2	Planned for Sprint 2
12	As a user, I would like to be able to edit which courses and events I want added to my Google	2	Planned for Sprint 2

	Calendar.		

Non-functional

Backlog ID	Non-Functional Requirements	Hours	Status
1	As a user, I would like to keep my MyPurdue data secure.	2	Planned for Sprint 1
2	As a user, I would like to keep my Google Calendar data secure.	2	Planned for Sprint 1
3	As a user, I would like personal information to remain secure and private.	2	Planned for Sprint 2
4	As a developer I would like to format my data such that it will be able to consistently work with Google Calendar API	2	Planned for Sprint 2

Use Cases

Case: Google Calendar login

Action	System Response
1. Click Google login button	2. Open Google Calendar login
3. Input credentials	4. Login user
	5. Close Google Calendar login

Case: MyPurdue login

Action	System Response
1.Click MyPurdue login	2. Open MyPurdue login
3. Input credentials	4. Login user
	5. Close MyPurdue login

Case: Fetch courses from MyPurdue account

Action	System Response
1.Click fetch courses	2. Load user’s course information from MyPurdue
	3. Organize the course information
	4. Display the list of course information

Case: Add extra information to the fetched courses

Action	System Response
1. Click the specific course	2. Show the chosen course information
3. Input extra information	
4. Click return	5. Store the extra information
	6. return to course list

Case: Check specific courses information

Action	**System Response**
1.Click the specific course	2. Show the chosen course information
3.Click return	4. Return to the course list

Case: Change MyPurdue account

Action	**System Response**
1.Click Edit my information button	2. Load and show user’s information
3.Click edit Mypurdue account	4. Allow user to enter the new account
5.Click save	6. Store the new account
	7. Update the course list
	8. Return to the user’s information
8.Click return	9. Show course list

Case: Add the Course and extra information to user’s google calendar

Action	**System Response**
1.Click add to google calendar button	2. Show a loading box
	3. Load the courses information
	4. Add the courses information to google calendar
	5. Show a done box