

# **Intern-Master**

**Considered your internship application done :)**

Team 17 - CS 30700: Sprint 2 Planning Document

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# Sprint Overview

During this sprint, we plan build on top of the progress that we already have in place so far. This means that we will need to scrawl more data related to each job application (description, skills required, company logo, etc) so that we can also display this on the frontend which gives the user more information when looking to apply to a specific job. Also, we need to create the ability to authenticate users so they can have their profiles saved.

**Scrum Master:** Nathaniel Young

**Meeting Plan:** Sunday, at 1 pm, Tuesday at 3 pm, Thursday at 3 pm.

## Risks and Challenges:

- First and foremost, we need to make sure that our Flask server is correctly deployed and the user authentication works properly because so many things in our system rely on these two things. Like the ability to store all the users' skills, education, and other profile information rely on both of these things to work properly.
- Design the automation script to handle could be hard. We need to carefully preprocess the data and analysis this before we start the auto filling logic.

# Current Sprint Detail

## User Story #1

As a prospective job applicant, I would like the ability to see the skills necessary for each particular job.

#	Description	Time (in hours)	Team	Owner
1	<u>Create scrawler for each job url to gather skills</u>	4	Backend	Nathaniel
2	<u>Update the job application class in Firebase with the skills needed</u>	2	Backend	Nathaniel
3	<u>Display the skills in for company</u>	2	Frontend	Jay

4	<u>Filter the skills needed in the search function</u>	4	Frontend	Jay
5	Unit test for backend	1	Testing	Nathaniel

#### Acceptance Criteria:

- Given that the scrawler for each job url to gather the skills works, the data should be stored in Firebase.
- Given that the scrawler for each job url to gather the skills works, the prospective job applicant can view the skills needed for each job.
- Given that the scrawler for each job url to gather the skills works, the prospective job applicants can use to search for companies by certain skills that are needed.
- Given that the implementation of search function is finished, the prospective job applicant will easily find jobs that are right fit to them.

## User Story #2

As a prospective job applicant, I would like the ability to see the skills used in each open source project.

#	Description	Time (in hours)	Team	Owner
1	<u>Create scrawler for each open source project url to gather the skills</u>	4	Backend	Nathaniel
2	<u>Update the open source project class in Firebase with the skills</u>	2	Backend	Nathaniel
3	<u>Explore different open source projects.</u>	2	Frontend	Jay
4	E2e testing. The front end won't	1	Testing	Jay

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#### Acceptance Criteria:

- Given that the scrawler for each open source project url to gather the skills works properly, the data should be stored in Firebase.
- Given that the scrawler for each open source project url to gather the skills works properly, the prospective job applicants can see certain open source projects that are useful to them.
- Given that the ability to explore different open source projects works properly, the job applicants can search and explore varieties of open source projects.

### User Story #3

As a prospective job applicant, I would like to sign in to the website with Google, etc.

#	Description	Time (in hours)	Team	Owner
1	<u>Google Auth</u>	3	Front End	Jay
2	<u>Github Auth</u>	3	Front End	Jay
3	<u>Facebook Auth</u>	3	Front End	Jay
4	Visual test.		Testing	Jay

#### Acceptance Criteria:

- Given that the user signs in through third party app, the user data should be stored should be stored in the user class.
- Given that the LinkedIn and other website scrawler to import user data automatically works properly, the developers can implement authority to each of those websites.
- Given that the implementation to login with Google , LinkedIn, etc. works properly, the prospective job applicants can log in to the Intern Master with existing accounts from those websites.

### User Story #4

As a developer, I would like to deploy the Flask server on to Heroku, and give the frontend the ability to send information to the server.

#	Description	Time (in hours)	Team	Owner
1	Configure Heroku configs	2	backend	Nathaniel
2	Expose API	6	backend	Nathaniel
3	Document API's	1	backend	Nathaniel
4	Test: The server is running	1	Testing	Nathaniel

#### Acceptance Criteria:

- Given that the deployment of the Flask server on Heroku is complete, the front end can send information to the server.
- Given that the deployment of the Flask server on Heroku is complete, we should be able to document the API of how to make API calls to the server.

### User Story #5

As a developer, I would like to deploy the frontend, so our internal team members could access it.

#	Description	Time (in hours)	Team	Owner
1	<u>Set up configurations</u>	2	Frontend	Jay
2	<u>Deploy it via some cloud service</u>	3	Frontend	Jay
3	<u>Auto sync with the frontend git commits</u>	2	Frontend	Jay
4	<u>Test if It can be accessed on the internet</u>	1	Testing	Nathaniel

**Acceptance Criteria:**

- Given that the deployment frontend is deployed properly, the app could accessed via certain url.
- Given that the deployment frontend is deployed properly, every commit to the github repo will trigger the automatic redeployment of our app.

**User Story #6**

As a prospective job applicant, I want to see pictures of the company for each job application.

#	Description	Time (in hours)	Team	Owner
1	<u>Create scrawler for gather images of each company</u>	6	backend	Nathaniel
2	<u>Add images to firebase company class</u>	2	backend	Nathaniel
3	<u>Display images on website next to each application</u>	2	frontend	Jay
4	Visual test for the images on the frontend	1	testing	Nathaniel

**Acceptance Criteria:**

- Given that the scrawler works properly, the images of each company should be stored in Firebase.
- Given that the scrawler works properly, the images should be displayed on the website next to each respective job application.

# Backlog

## **Functional**

1. As a prospective job applicant, I would like to add my skills so that I can have jobs automatically matched for me so that job opportunities can come find me instead of me trying to find job opportunities.
2. As a developer, I would like to create the ability to automatically import a prospective job applicant's skills by using their LinkedIn account information so that prospective job applicants can have a smoother experience using the Intern Master platform.
3. As a prospective job applicant, I would like the ability to use "Sign-in with Google" to make the setting up my account with Intern Master a breeze.
4. As a prospective job applicant, I would like to automatically apply to a job in one click so that I do not have to go through the same repetitive text and drop down boxes for each job I want to apply to.
5. As a prospective job applicant, I would like to the ability to login to the website so that I can have all of my important information stored for me which would allow there to be the one click apply feature.
6. As a prospective job applicant, I would like to polish my skills with the best recommendation so that I could have a best match to the target company.
7. As a prospective job applicant, I would like would like the ability to be notified by email or text message when a new relevant job is posted that where the job requirements match my skills.
8. As a prospective job applicant, I would like to browse other similar jobs so that I can apply to more relevant jobs quicker.
9. ~~As a prospective job applicant, I would like to the ability to easily navigate the job suggestion website so that applying to more jobs will be a breeze with good UI.~~
10. As a prospective job applicant, I would like the ability to share my job profile which will feature a downloadable resume, skills tab, work experience tab, and links to external websites (like LinkedIn, GitHub, etc).
11. As a prospective job applicant, I would like the ability to manually edit my public facing profile so that I can change any errors in the automatically generated profile.
12. As a prospective job applicant, I would like to ability to find online education sources to help me polish my skills so that my application looks better to interviewers.
13. As a prospective job applicant, I would like to be suggested which online education sources I should take in order to meet the requirements of job X.
14. As a prospective job applicant, I would like the ability to see what date the job was published so that I can know how recently it was posted, and if I am one of the first applicants.
15. As a prospective job applicant, I would like to read success stories of other people who used Intern Master on the Intern Master blog so that I can be encouraged to strive for my goal of getting that job.

16. As a prospective job applicant, I would like the ability to comment on an Intern Master blog to express my feelings or congratulate somebody else on their job success story.
17. As a prospective job applicant, I would like the ability to see what date the blog on the Intern Master blog was published so that I can know how recently that particular person had a successful job acceptance.
18. As an organization, Intern Master, would love to host guests who work in industry on the Intern Master blog to write an article so that our prospective job applicants can have awesome content to read.
19. As a developer, I would love to create an Intern Master forum (using the same login account information) can ask and answer questions for each other.
20. As an organization, Intern Master, would love to create a community of passionate people to interact on the Intern Master forums.
21. As a organization, Intern Master, would love to have a group of volunteering professionals in industry to monitor the Intern Master forums.
- ~~22. As a prospective job applicant, I would like to see awesome relevant open source project suggestions that I should consider working on so that I can boost my job application and resume.~~
23. As a developer, I would like Intern Master to automatically suggest awesome open source projects to work on (in the same way that it automatically suggests relevant jobs to apply to).
24. As a developer, I would like to create an about page about Intern Master was created and the amazing developers behind it.
25. As a developer, I would like to show our personal profiles so that we could be found easier and can acquire our next interviews and jobs easier.
26. As a prospective job applicant, I would like the ability to have a toggle button on the website to a night mode (because we all know that you probably are burning the midnight oil, and a darker color screen will be better for your long term health).
27. As a prospective job applicant, I would like the ability to share awesome jobs that I applied to on Facebook, Twitter, etc. so that I can use my energy on social media while "Intern-Master" does all the hard work of job applying in the background.
28. As a developer, I would like to add a subscription based service called "Intern Master Pro" for only \$19.99 per month which allows prospective job applicants to apply to all jobs that are relevant to them without ever having to do anything. (If time allows)
29. As a developer, I would like to give "Intern Master Pro" subscribers access to the beta software (the next big things). (If time allows)
30. As a developer, I would like to put Amazon affiliate links on our website to the best books, computer gadgets, and things to help prospective job applicants study for their next interview, and so that Intern Master can gain a little bit of profit for their services.
31. As a prospective job applicant, I would like the ability to gain "App-Points" by referring other prospective job applicants to apply to jobs through "Intern-Master." (If time allows)
32. As a prospective job applicant, I would like the ability to get early access to special jobs by redeeming "App-Points". (If time allows)



## ***Non-functional requirements***

1. Architecture & Infrastructure
  - a. Backends will be Python based using Flask framework to design a restful API.
  - b. React/AngularJs based front end web app allowing users to filling their information, manage detailed information, skills development suggestions and search for matching positions.
  - c. BaaS such as Firebase to store user information.
  - d. Chrome extension to help frontend web app to apply the dom manipulation.
  - e. We will use docker container heavily to ease the deployment process.
  - f. We will use travis.ci to automate the build and for our source code.
2. Security
  - a. Security is essential for Intern-Master, the Intern-Master's database will contain users' crucial personal information such as their first name, last name, school, graduation date, skills, projects, experiences, ethnicity, disabilities, gender, etc.
  - b. Although the third party BaaS will take care of the security issues for us by using token authentication and other methods, we still looking forward to implementing our services with https to ensure the best-secured service.
3. Usability
  - a. The interface should be easy to navigate and simple enough for the average user to understand.
  - b. The Intern-Master works on any types of internship application formats and accessible on all the platforms such as Mac, Windows, Android, or iOS.
4. Hosting & Deploying
  - a. One single server is enough for the starter phase. We will use Google Cloud/AWS to host frontend + backend at the same time. We will heavility use container services like docker to ease the hosting and deploying headache.