Intern-Master

Considered your internship application done:)

Team 17 - CS 30700: Sprint 1 Planning Document Ji Ma, Nathaniel Young, Ji Soo Cha, Xinping Zhang

Sprint Overview

During this sprint, we hope to gather a significant amount of data from application forms so that we can create a model to automatically fill in the prospective job applicant's application form. We also want to create a front end dashboard to display all available jobs in the users' field of study. We also want to have an authentication system so users can log in to your website.

Scrum Master: Ji Ma (Jay)

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

Risks and Challenges:

At the starting phase of our development, we have to figure out how to effectively get the company data and find the common patterns inside of the multiple application forms. And based on the that analysis, the detailed auto filling logic/machine learning model will be decided. Also, we need to make sure we can store all the users login and associated job profile information securely.

Current Sprint Detail

User Story #1

As a prospective job applicant, I want to know every single job application available in my field.

#	Description	Time (in hours)	Team	Owner
1	Implement Company Class in the DB	4	Back end	Jay
2	Implement From Class in the DB	6	Back end	Jay
3	Implement Entry Class in the DB	6	Back end	Jay
4	Create Scrawler Class in Python to handle all the data collection tasks.	10	Back end	Nathaniel Kelvin

- Given that the Scrawler Class in Python is created, it can handle all the data collection tasks.
- Given that the implementation of the listing job application is finished, the prospective job applicant can access their job applications available in their fields.
- Given that the implementation of the listing job application is finished, the prospective job applicant no longer need to spend time on searching new job applications.

User Story #2

As a prospective job applicant, I would love to have easy to use dashboard with the functionality to login in.

#	Description	Time (in hours)	Team	Owner
1	Create a frontend skeleton that we could start working with.	5	Front end	Jay
2	Implement the user authentication in the web app	10	Front end	Jisoo
3	Create a cool logo for Intern Master	2	Front end	Nathaniel
4	Create a nice color scheme to the website	2	Front end	Jisoo

Acceptance Criteria:

- Given that the creation of frontend skeleton, the developers can start working on making frontend for our website.
- Given that the implementation of user authentication, the users can sign up and login to our website.

- Given that the login system is implemented, the prospective job applicant can easily use dashboard with the functionality to login in.
- Given that the website is complete and running, the prospective job applicant can easily interact with our website.

User Story #3

As a prospective job applicant, I would love to see the detailed company data with the ability to filter my searches (for example, by location and deadline date). Detailed company information should be rendered in the frontend nicely.

#	Description	Time (in hours)	Team	Owner
1	Implement companies pages	4	Front end	Jisoo
2	Create filter & search function	8	Front end	Jay
3	Have link to company's application form	1	Front end	Jisoo
4	Display application deadline	1	Front end	Jisoo
5	Create a function/class to parse and restructure the data received from backend.	8	Front end	Jay

Acceptance Criteria:

- Given that the implementation of company pages, the prospective job applicants can view their companies' detailed informations.
- Given that the implementation of company pages, the prospective job applicants can search the detailed company data with ability to filter their searches.
- Given that the ability to have links to companies' application form, prospective job applicants can access job applications through our website.

User Story #4

As a prospective job applicant, I want to have a profile page with my education, skills, work experience, GitHub link, etc.

#	Description	Time (in hours)	Team	Owner
1	Implement User Profile Page	5	Front end	Jisoo
2	Design User class in DB	6	Back end	Nathaniel
3	User information controller	6	Front end	Jay
4	Upload resume	8	Front end	Jisoo

Acceptance Criteria:

- Given that the ability to create user profile page, the prospective job applicants can create and edit personal informations and user profile page.
- Given that the ability to edit and create user profile page, the prospective job applicants can upload resume.
- Given that the ability to create user profile page, the prospective job applicants can view other job applicants public information.

User Story #5

As a developer, we want to update the company application forms with scrawler, view user stats in the admin dashboard.

#	Description	Time (in hours)	Team	Owner
1	Create admin dashboard	4	Front end	Jay
2	Create the ability to edit company	4	Front end	Jisoo

	application forms			
3	Create a section for admin to tune the scrawler visually.	6	Front end	Jay
4	API to run the scrawler	4	Back end	Nathaniel

- Given that the admin dashboard is completed, the developer can update the company forms with scrawler.
- Given that the admin dashboard is completed, the developer can view user stats.
- Give that the admin dashboard is completed, the developer could manually give user certain access like beta features for A/B testing.

User Story #6

As a prospective job applicant, I want to see available open source projects to work on.

#	Description	Time (in hours)	Team	Owner
1	Create a function in side of scrawler to get relevant technical skills to corresponding applications.	10	Back end	Nathaniel Jay Kelvin
2	Implement database for open source projects	8	Back end	Nathaniel
3	Scrawl the "awesome list" that is related to the skills for	6	Back end	Nathaniel Kelvin

	recommendation system			
4	Implement Skill in DB	5	Back end	Nathaniel

- Given that the ability to recommend open source projects, the prospective job applicants can see available open source projects to work on through our website.
- Given that the ability to recommend open source projects by skills, the prospective job applicants can get their recommendation based on their skilled fields.
- Given that this functionality is working, the prospective job applicants can advance their skills through our website.

User Story #7

As a prospective job applicant, I want to read a blog about relevant news topics in my industry and user success stories.

#	Description	Time (in hours)	Team	Owner
1	Implement News Page	4	Front end	Jay
2	Create a News detail Page	4	Front end	Jay
3	Create the feature to add news in the admin dashboard	5	Front end	Jisoo
4	Implement News class in DB	5	Back end	Nathaniel
5	Amazon affiliate links to relevant tech gadgets to help me do my work	2	Front end	Jisoo

- Given that the blog system is implemented, the prospective job applicants can view varieties of blogs and get informed in their relevant fields.
- Given that the blog system is implemented, the prospective job applicants can create and edit their blogs and upload their stories to other users..
- Given that the blog system is implemented, the prospective job applicants can search and view news topics and user success stories.

User Story #8

As a developer, we want to deploy the frontend and backend and test them with ease

#	Description	Time (in hours)	Team	Owner
1	Write the details requirement.txt for python	3	Back end	Nathaniel
2	Configure gulp, webpack, and browsersync	3	Front end	Jay
3	Configure bower and npm information	4	Front end	Jisoo
4	Configure server for backend and frontend	3	Backend	Nathaniel Jay
4	Setup Travis CI and Jenkins.	3	Backend	Nathaniel Jay

Acceptance Criteria:

- Given the backend and frontend configuration has been completed, when developers try
 to deploy the application, the process should be automated enough to make it simple
 and easy like a breeze.
- Given the travis CI and Jenkins has been configured, when developers commit something to the code base, it will be automatically compiled and inspecting the potential errors and bugs inside of the project.

• Given the backend and frontend is deployed, when they are communicating to each other issues like CORS between them should be handled.

User Story #9

As a prospective job applicant, I would like to post on the community forum and get feedback on my job application search.

#	Description	Time (in hours)	Team	Owner
1	Deploy the forum	6	Backend	Nathaniel Jay
2	Connect the authentication to the forum	2	Backend	Nathaniel
3	Create web page for forum with same login info	4	Front end	Jay Jisoo

Acceptance Criteria:

- Given the forum authentication is working, when users are redirected to the forum, they could seamlessly redirect to the forum without worrying about authentication. Plus, if they want to, they could login/logout by using the authentication page.
- Given the forum system is working, when they try to post something in the forum, some
 of the data access like companies, skills should also be available for them to play with in
 the post.
- Given the forum is working, when developers want to extend the features in the forum, they could have multiple api to access the forum to develop more features that could be integrated in our app.

User Story #10

As a prospective job applicant, I would like to share my job application I applied to on social media.

# Description Time (in hours)	Team	Owner
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1	Generate dynamic share link	5	Backend	Nathaniel Jay
2	Create customized shareable content page to attract new users	5	Front end	Jisoo Jay
3	Create Facebook, twitter, etc. share buttons	1	Front end	Jisoo

- Given that the website is up and running, the user can click on a share button for their desired social media platform.
- Given that the website is up and running, the viewer of said user's social media post can click on the link, and it will redirect them to the sign up page if they have not created an account with Intern Master.
- Given that the website is up and running, the viewer of said user's social media post can click on the link, and it will redirect them to see the job application if they already have an Intern Master login.

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
 - Backends will be Python based using Django and 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/Parse 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.