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CS562: Software Project Management

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Jobprofill

1. What's the system about?

How many of you are currently in the process of applying for internship/job opportunities in the upcoming summer? I'm sure that everyone must be irritated by filling out the long-drawn-out forms with repetitive fields like ethnicity, disability status, LinkedIn URL, etc. The proposed system *Jobprofill* is a Firefox/Chrome Extension which will help the users in filling the applications automatically. After installing the add-on in the browser, whenever the user fills up the first job application, they will be able to click on the extension icon in the toolbar to generate their profile for storing in the browser's localStorage. The user profile will be stored in the form of key-value pairs of field and value. For every subsequent job application, on any other job portal, all the known fields will be auto-populated with the values stored in the profile. If there are any new fields, the user should fill those and click on the extension icon again to update the profile.

There are extensions like [Autofill](#) available on extension-stores but they have a very generic use and they don't work cross-job-portal, or they work on a defined set of domains. This extension should however overcome the limitations and be flexible to work on any job portal. If at all it is possible to cache the resume files, they should be auto-uploaded or the user should

be navigated to the remembered path. The extension will be built using **javascript, jQuery,** and [javascript APIs](#) by following the MDN's standard add-on packaging. If any other technology is required for DOM parsing or any other purposes, it'll be added up.

2. User stories

a)

Setup user-story for extension development
×

in list [To Do](#)

Description

Edit

1. Determine whether to develop a cross-browser extension or an extension specific to Google Chrome/Mozilla Firefox.
2. Identify what other technologies might be needed.
3. Setup the extension folder with manifest file, icons, js, etc.
4. Scrape resume portals for commonly seen fields in job application forms.
5. Store the scraped fields in some .json/.txt file

Acceptance Criteria:
All the initial setup is done with a pre-identified form-fields list ready.

Attachments

LINK

First Web Extension Tutorial ↗
 Added an hour ago - [Comment](#) - [Remove](#) - [Edit](#)

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Members

Labels

Checklist

Due Date

Attachment

Cover

POWER-UPS

Get Power-Ups

ACTIONS

→ Move

b)

Parse form fields to create user profile object

in list [To Do](#)

Description

Edit

1. Identify labels and inputs in the from
2. Form user profile as every new field is read.

c)

Save user profile to browser cache

in list [To Do](#)

Description Edit

As an online job applicant, I can fill the application form and then click on the plugin icon in the browser toolbar so that the values filled in the application generate my user profile for reuse.

Acceptance Criteria:

1. The userProfile object is generated by parsing the DOM and matching fields with regular expressions.
2. The userProfile object is saved in the browser's localStorage.
3. The userProfile object consists of all the form elements that have values.

d)

Auto-populate the form with user profile object

in list [To Do](#)

Description Edit

As an online job applicant, I can open any job application portal and see the values automatically filled depending on my previously saved details.

Acceptance Criteria:

1. All the existing fields in userProfile object should be matched with the fields in the DOM with correct regular expressions.
2. All the existing values must be populated by any type of form input, select, radio, textareas, checkboxes

ADD TO CARD

 Members

 Labels


 Checklist

 Due Date


 Attachment

 Cover

e)


Update User Profile object with a new form
×

in list [To Do](#)



Description
Edit


As an online job applicant, I can modify the auto-filled application form and then click on the plugin icon in the browser toolbar so that the values filled in the application update my user profile for reuse.


Acceptance Criteria:


1. The userProfile object is updated by parsing the DOM and matching fields with regular expressions.
2. The updated userProfile object is saved in the browser's localStorage.
3. The userProfile object consists of all the form elements that have values.
4. The userProfile object doesn't modify a field if it changes to blank.


ADD TO CARD


 Members

 Labels


 Checklist

 Due Date


 Attachment

 Cover

f)


Auto-upload or suggest the previous path for resume/cover letter fields
×

in list [To Do](#)



Description
Edit


As an online job applicant, I can auto-upload the resume/cover letter or navigate to the previously used folder.


Acceptance Criteria:


1. The resume/file should be fetched from app cache/browser storage or
2. If storing is infeasible, the path should be remembered.

ADD TO CARD


 Members

 Labels


 Checklist

 Due Date

g)


Support multiple education/experience/projects fields
×

in list [To Do](#)



Description
Edit

As an online job applicant, I can see my multiple educational institutions or experiences being auto-populated.

Acceptance Criteria:


1. All the multiple experiences should be auto-populated.

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 Members

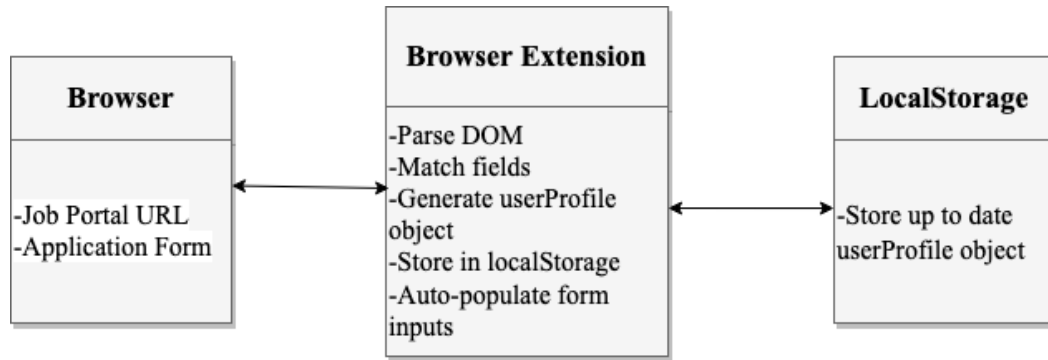
 Labels

 Checklist

 Due Date

3. UML Diagrams

a) Generic Block



Block Illustration

b) Generic Sequence Diagram

