SOFTWARE ENGINEERING LAB TASKS

Autorecruit - Automatic resume scanner

Unit 3 - Lab Task #3

PREPARED BY:

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Problem Statement – 3:

Configuration management helps maintain various versions of the project and eases promotion of new releases. With respect to your project, answer the below questions and explore the mentioned scenarios with git.

Solution:

1. Below table describes the files on the project repository into configuration items:

Name of configuration Item	File Type	Description
Resume.py	Python	Contains the base code for the other functions
Index.html	html	Front end for the website
Styles.css	Css	Contains fonts, styling for each element
Processing.py	Python	Contains functions related to analyzing the uploaded resume

2.Separate branches are created and each team member has add/modify any of the configuration items on a separate branch resp. to their SRN:

```
Already up to date.
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$ git checkout PES1UG20CS046
Switched to branch 'PES1UG20CS046'
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$ git add .
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$ git commit -m "Added processing of resume"
[PES1UG20CS046 ea32d52] Added processing of resume
 1 file changed, 114 insertions(+)
 create mode 100644 processing.py
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$
```

```
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git checkout PES1UG20CS047
Already on 'PES1UG20CS047'
Your branch is up to date with 'origin/PES1UG20CS047'.
```

```
D:\selol\Autorecruit>git checkout PES1UG20CS016
Already on 'PES1UG20CS016'
Your branch is up to date with 'origin/PES1UG20CS016'.

D:\selol\Autorecruit>
```
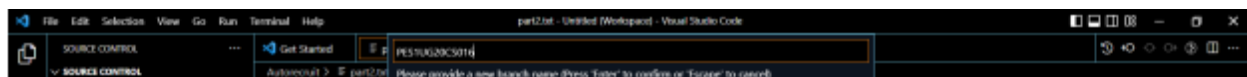


```
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git add .
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git commit -m 'new'
[main e9111a9] new
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 706 bytes | 353.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/Ananyarao610/Autorecruit.git
   88ee7e6..e9111a9  main -> main
PS C:\Users\Ananya\Downloads\se_project\Autorecruit>
```

```
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$ git status
On branch PES1UG20CS046
Your branch is ahead of 'origin/PES1UG20CS046' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$
```

```
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
D:\selo1\Autorecruit>git status
On branch PES1UG20CS016
Your branch is up to date with 'origin/PES1UG20CS016'.

nothing to commit, working tree clean

D:\selo1\Autorecruit>
```

```
D:\selo1\Autorecruit>git branch
* PES1UG20CS016
  main

D:\selo1\Autorecruit>
```

```
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git branch
  PES1UG20CS047
* main
PS C:\Users\Ananya\Downloads\se_project\Autorecruit>
```

```
ananya@ananya-Vostro-5402:~/Desktop/Autorecruit$ git pull
From https://github.com/Ananyarao610/Autorecruit
 * [new branch]      PES1UG20CS047 -> origin/PES1UG20CS047
Already up to date.
```

```
PS C:\Users\Ananya\Downloads\se_project\Autorecruit> git pull
Already up to date.
PS C:\Users\Ananya\Downloads\se_project\Autorecruit>
```

```
D:\selo1\Autorecruit>git pull
Already up to date.

D:\selo1\Autorecruit>
```

| Default branch			
main Updated 22 minutes ago by Ananyarao610	Default		
Your branches			
PES1UG20CS046 Updated 37 minutes ago by ANANYA RAO	1 0	New pull request	
Active branches			
PES1UG20CS047 Updated 22 minutes ago by Ananyarao610	0 0	New pull request	
PES1UG20CS046 Updated 37 minutes ago by ANANYA RAO	1 0	New pull request	
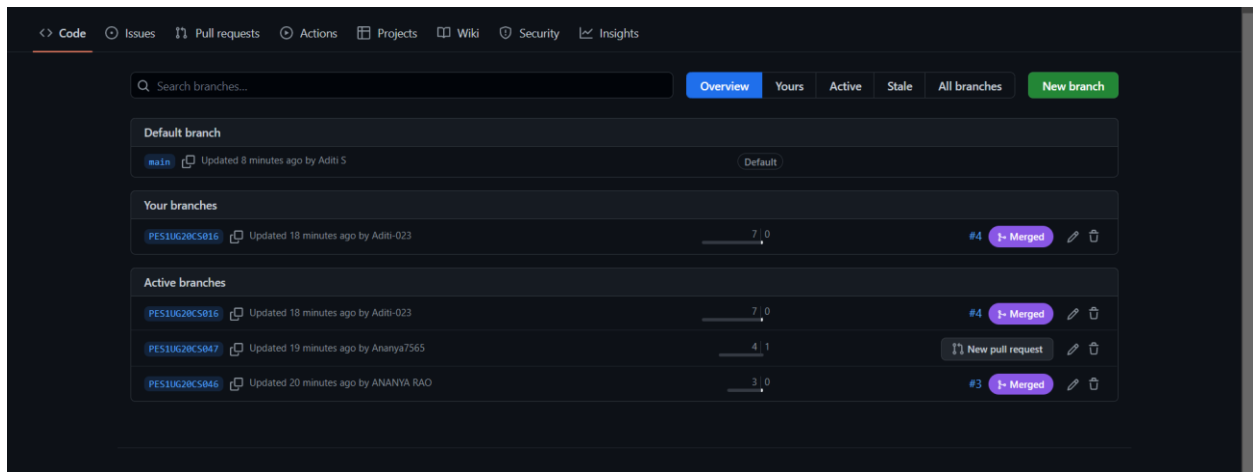
3.Version of the project been indicated after modifications on different branches as mentioned in the below image after:
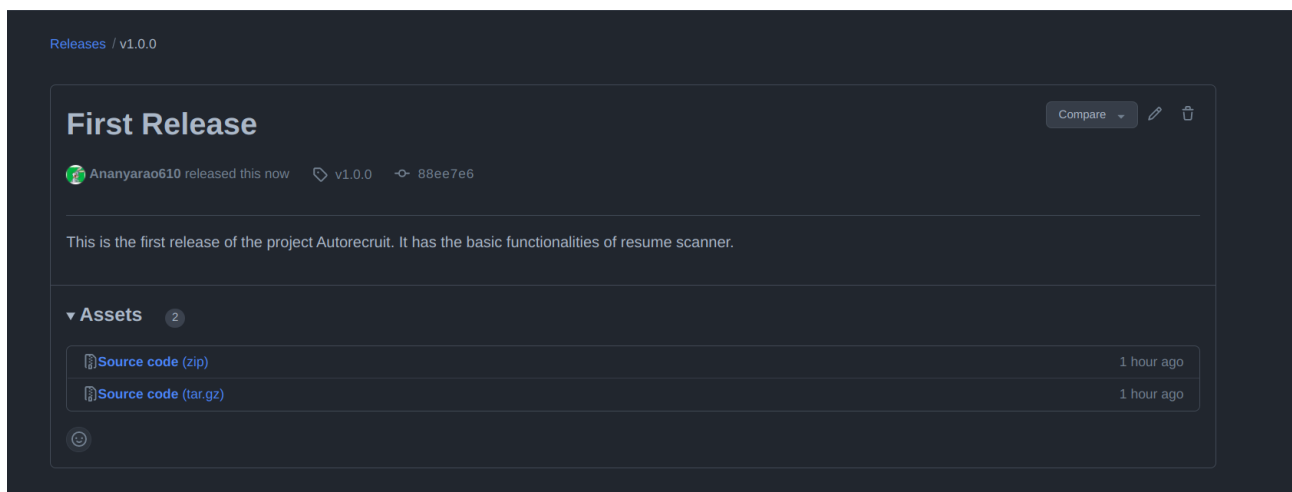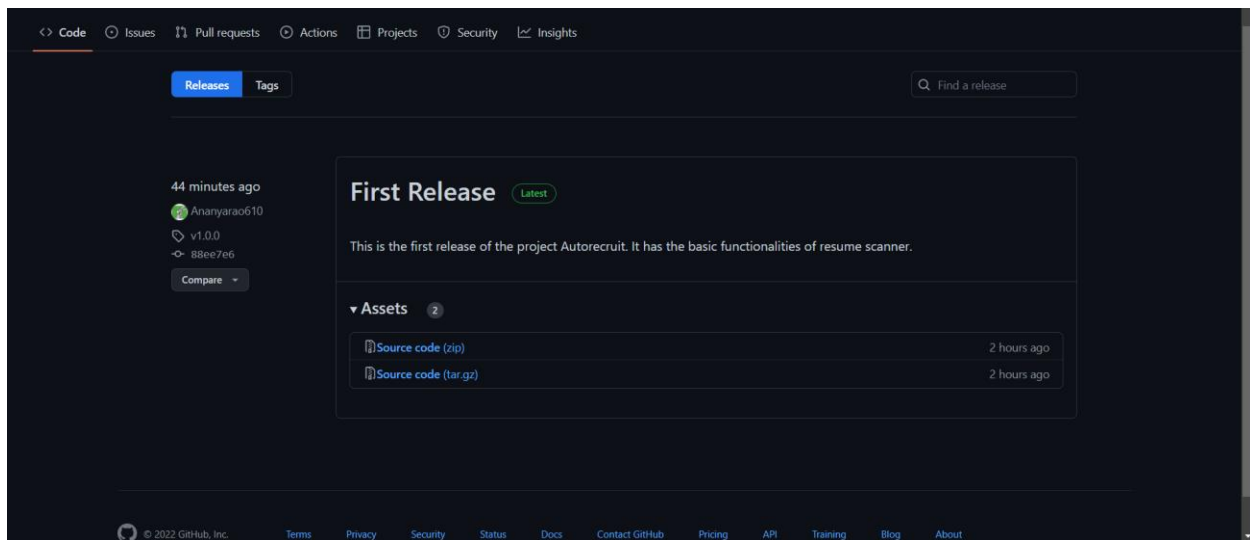
4. Promote a branch to the baseline by merging.
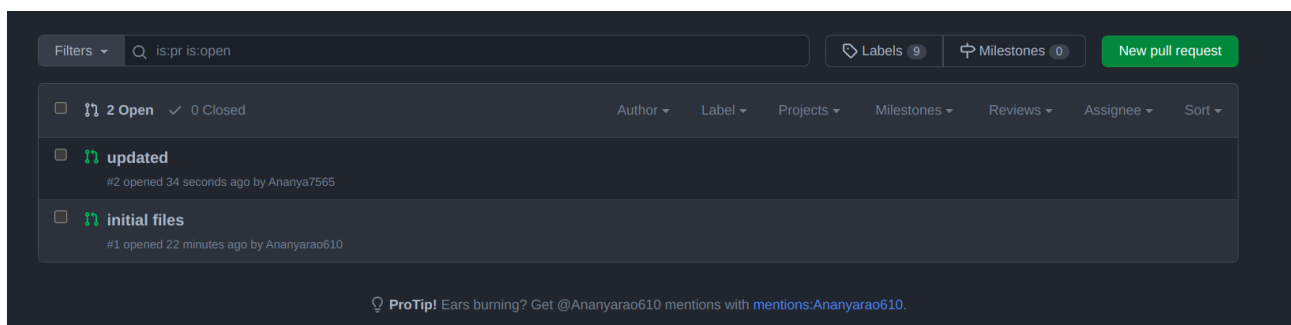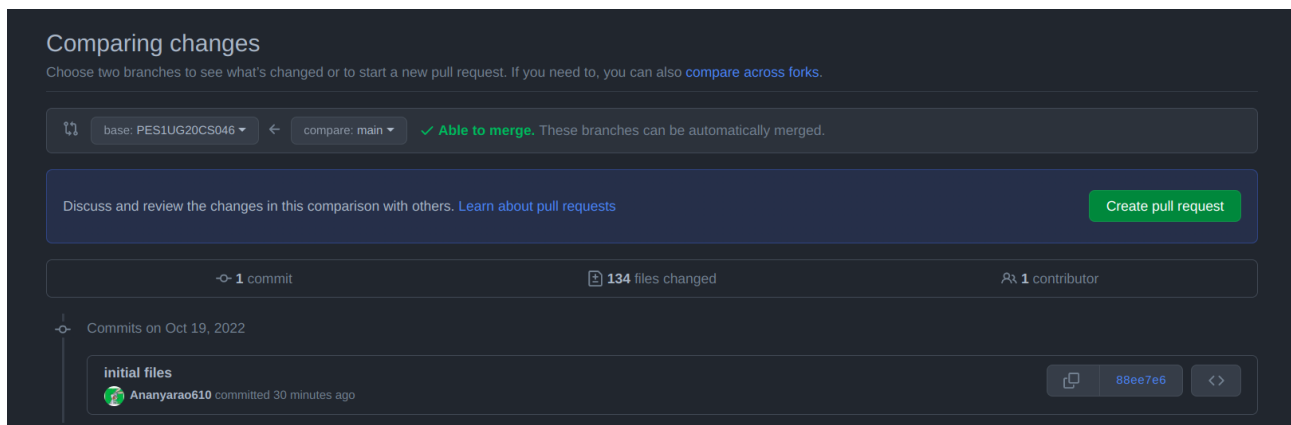
Add more commits by pushing to the `main` branch on **Ananyarao610/Autorecruit**.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

✓ **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ▾ or view command line instructions.

Write | Preview

H B _I_ ⫶≡ <> 🔗 ≔ ≔ ☰ @ ⟐ ↩

Merging this branch with the main branch

Attach files by dragging & dropping, selecting or pasting them.

⁂ Close with comment   Comment

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initial files #1

⑂ Merged **Ananyarao610** merged 5 commits into `PES1UG20CS046` from `main` ⊡ now

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

base: **main** ▾ ← compare: **PES1UG20CS047** ▾ ✓ **Able to merge.** These branches can be automatically merged.

Discuss and review the changes in this comparison with others. Learn about pull requests

Create pull request

⊸ **2 commits** | ⊞ **2 files changed** | 👥 **1 contributor**

◇ Commits on Oct 19, 2022

new readme
Ananya7565 committed 7 minutes ago
⎘ | b9049d2 | <>

new file
Ananya7565 committed 1 minute ago
⎘ | 08562f2 | <>

⊞ Showing **2 changed files** with **14 additions** and **1 deletion.**

Split | Unified

∨ 3 ▣▣▣▢▢ README.md ⎘ | <> 📄 ⋯

... ... @@ -1 +1,2 @@
1 - # Autorecruit

---

updated #2

Edit | <> Code ▾

⑂ **Open** Ananya7565 wants to merge 2 commits into `PES1UG20CS047` from `main` ⎘

💬 **Conversation** 0 | ⊸ Commits 2 | ☑ Checks 0 | ⊞ Files changed 1

+5 −1 ▣▣▣▣

Ananya7565 commented now
Collaborator | ☺ | ⋯

updated files

⊞ Ananya7565 added 2 commits 40 minutes ago

◦ 🌱 updated readme   0fe15a0
◦ 🌱 new   e9111a9

Add more commits by pushing to the `main` branch on Ananyarao610/Autorecruit.

✓ **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ▾ | You can also open this in GitHub Desktop or view command line instructions.

Reviewers ⚙
No reviews
Still in progress? Convert to draft

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects ⚙
None yet

Milestone ⚙
No milestone

updated #2

⑂ Merged Ananya7565 merged 2 commits into `PES1UG20CS047` from `main` 🗐 15 seconds ago

💬 Conversation 0   ⦿ Commits 2   ☑ Checks 0   ± Files changed 1

Ananya7565 commented 3 minutes ago   Collaborator ☺ ⋯

updated files

Ananya7565 added 2 commits 43 minutes ago

⦿   updated readme   0fe15a0

⦿   new   e9111a9

⑂ **Ananya7565** merged commit `2e7cb2c` into `PES1UG20CS047` 15 seconds ago   Revert

---

📱 **Ananyarao610 / Autorecruit** `Public`

👁 Watch 1 ⌄   ⑂ Fork 0 ⌄   ⭐ Star 0 ⌄

<> Code   ⊙ Issues   ⑆ **Pull requests** 1   ⊙ Actions   ⊞ Projects   ▢ Wiki   ⊘ Security   ⊯ Insights

commited file #4

Edit   <> Code ⌄

⑆ **Open**   Aditi-023 wants to merge 1 commit into `main` from `PES1UG20CS016` 🗐

💬 Conversation 0   ⦿ Commits 1   ☑ Checks 0   ± Files changed 1   +2 −0 ▪▪▫▫▫

Aditi-023 commented 2 minutes ago   Collaborator ☺ ⋯

No description provided.

⦿   commited file   795f749

Add more commits by pushing to the `PES1UG20CS016` branch on Ananyarao610/Autorecruit.

✓ **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ⌄   You can also open this in GitHub Desktop or view command line instructions.

Write   Preview   H B I <> 🔗 ≔ ≔ ❝ @ ⧉ ↩

Reviewers ⚙
No reviews
Still in progress? Convert to draft

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects ⚙
None yet

Milestone ⚙
No milestone

Active branches

`PES1UG20CS016` 🗐 Updated 21 minutes ago by Aditi-023   7 | 0   #4 ⑂ Merged ✎ 🗑

Merge pull request #4 from Ananyarao610/PES1UG20CS016 ⋯   Verified 🗐 24f20f8 <>
👤 **Aditi-023** committed 11 minutes ago
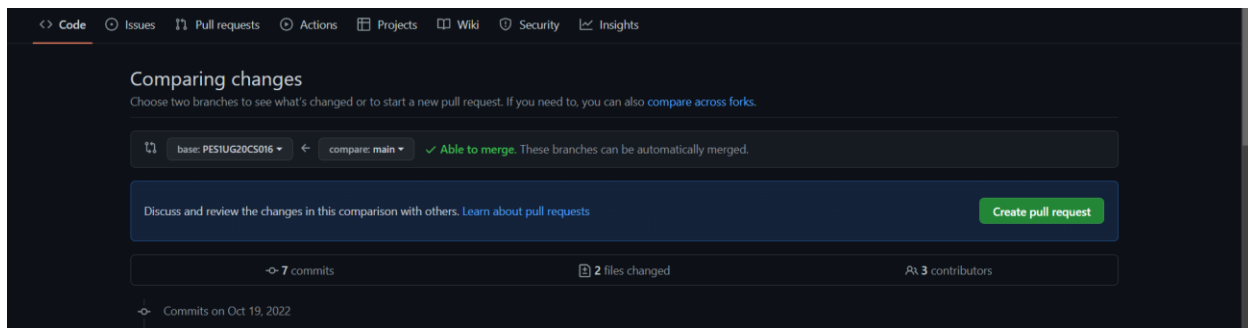
Problem Statement – 4:

Let's assume you have received funding to launch your project as a start-up. Being at the nascent stage of development process, you have been tagged under the "Initial" maturity level.

- Your task is to brainstorm and come up with at least 3 new functionalities or ways to improve the quality of your project and attain higher levels of maturity according to the CMM model.

Solution:

Various Functionalities to improve the Quality of the project and attain higher levels of maturity according to CMM model-

1. Complete background check of all the applicants-

The applicant's name, address and previous jobs are extracted from the uploaded resume. His marks are verified and his behavior and performance in his previous work is cross-verified. His criminal records are detected throughout the country and are checked for pending cases against her/him. A score is assigned after the background check is completed. If the applicant's score is less than a certain threshold, he is removed from the recruitment process.

2. Automated interview scheduling and integration with calendar software, such as Microsoft Office 365.

3. Improved data security

Since all of the information is stored in one system, we should ensure information disposal mechanisms are in place this helps prevent stale data from being forgotten about and stolen at a later date.

4. Chatbot-

An AI powered chatbot is provided on the candidate's job page to converse and answer questions regarding the recruitment process. This chatbot replaces a long and tedious FAQ section. The chatbot is trained to answer basic questions about the companies, optimal job selection based on your skills and about the recruitment process.