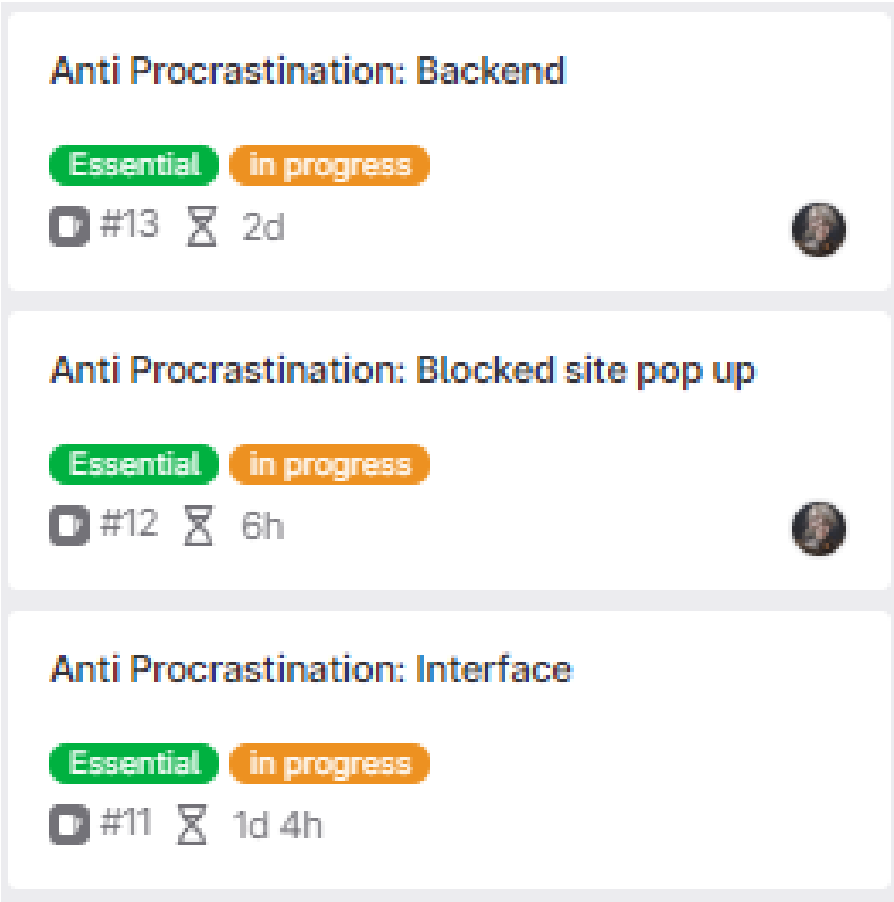
S2 Submission: Gilead Bempah 2296232

My Agile Estimations



(Gitlab divides days as 8 hour cycles so i could not get it to display the actual hour)

Blocked site pop-up: 8 hours

The website screen that appears when a user enters a link or tries to access a website that has been blocked by using the Anti-Procrastination Block Site feature is what the feature card refers to; it will not require much work to complete as the website pop-up that will appear will be constant, but because I am not proficient in HTML, it will take me some time to create and modify the website design to make it look appealing to the user, so I have estimated the pop-up will take 8 hours.

Interface: 12 hours

This will be similar to the pop-up screen, but rather than being static—where the user can't interact with it and it doesn't change over time—the interface will allow the user to perform activities (such as setting timers, checking boxes, etc.). The interface will need to be closely connected to the backend in order to integrate functionality into the website. It will also feature a dynamic list that will show what sites have been blacklisted and whose size may increase and decrease depending on the user's behavior.

Backend:16 hours

This will be the hardest feature to do, it will require me to spend more than the other tasks as this is where i will spend my time creating the site blocker part of the application, this whill also be the part that will link the database to the interface.

Tech report: SpringBoots

The open-source framework Spring Boot is used to create web applications using the Java programming language. It is constructed on top of the Spring Framework and offers a streamlined and prescriptive method for creating enterprise-level applications. Given that the framework makes use of Java, this will prove to be highly beneficial and crucial when working on the back-end of our application. Due to our first-year experience with Object Oriented Programming in Java and Full Stack development in JavaFX, every member of the team will be able to contribute to the creation of the web application.

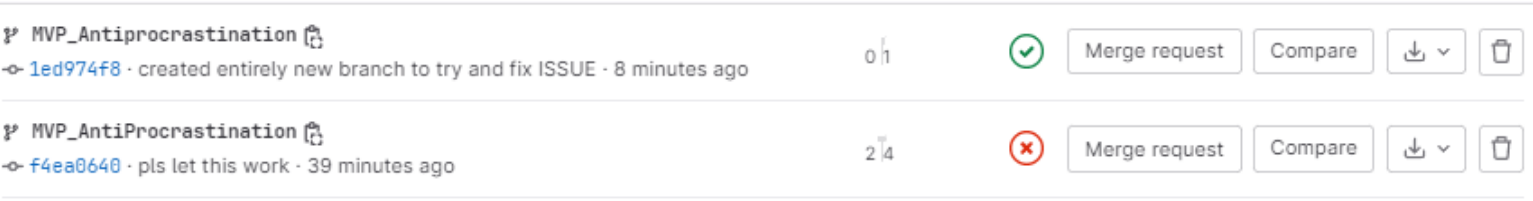
Moreover, Spring Boot offers a variety of pre-built beginning templates to aid developers in starting their applications rapidly. These templates support a number of different technologies, including security, WebSocket, and REST APIs. By including this feature, development time is further reduced and output is increased. Beginning work on the web application by using a template will allow us to implement each feature faster by providing a starting point for building our application instead of starting from scratch and will give us more time to refine them and look for bugs in them so that they can be fixed. This will save us time when coding each feature of our application.
We will be able to understand each other's code better because of these templates' consistency, which will improve the quality of the code and speed up the development process.

Support for many data sources and integration with several databases, including MySQL, PostgreSQL, and MongoDB, are two more advantages of Spring Boot. It is a great option for developing scalable and resilient applications since it offers strong support for distributed systems and microservices architecture.
For example, in our web application, each user will have a unique To-Do List and Anti-Procrastination blocked sites; I'm sure the user of the application would not want these to be gone on a new session and would like for that information to be retained. The web application we are developing will undoubtedly need a database model to save the user's data and settings.

We will be able to work on our application without worrying that we'll eventually need to switch to a new framework or a different language because of the support for several database technologies.
In summary, Spring Boot is a strong and effective platform for creating Java web applications. It is a top option for developers wishing to create strong and scalable applications due to its auto-configuration, support for many data sources, and interaction with different databases. Its pre-built startup templates also make it easier for developers to get going immediately, cutting down on development time and boosting output.

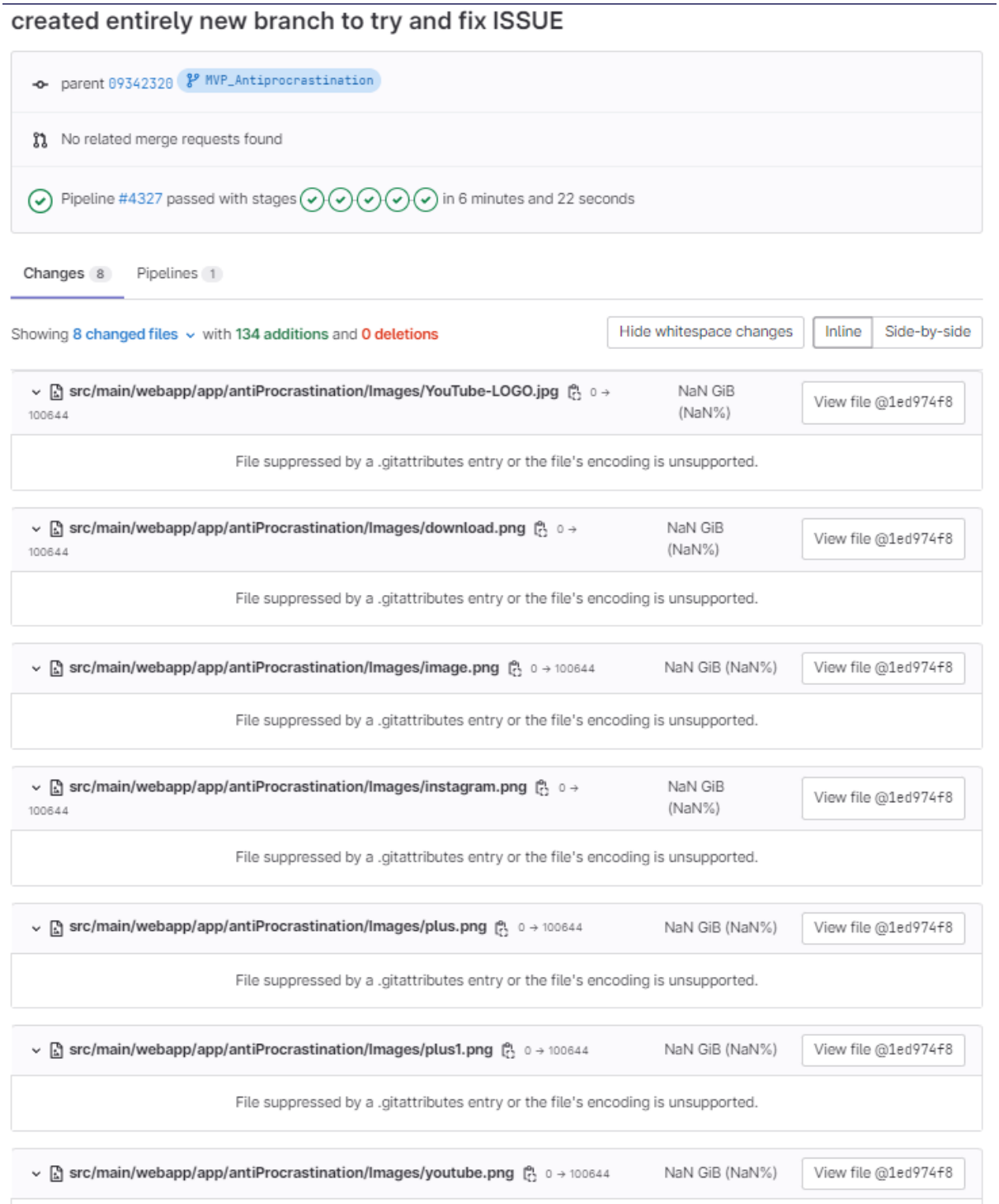
Evidence of PipeLine Commit

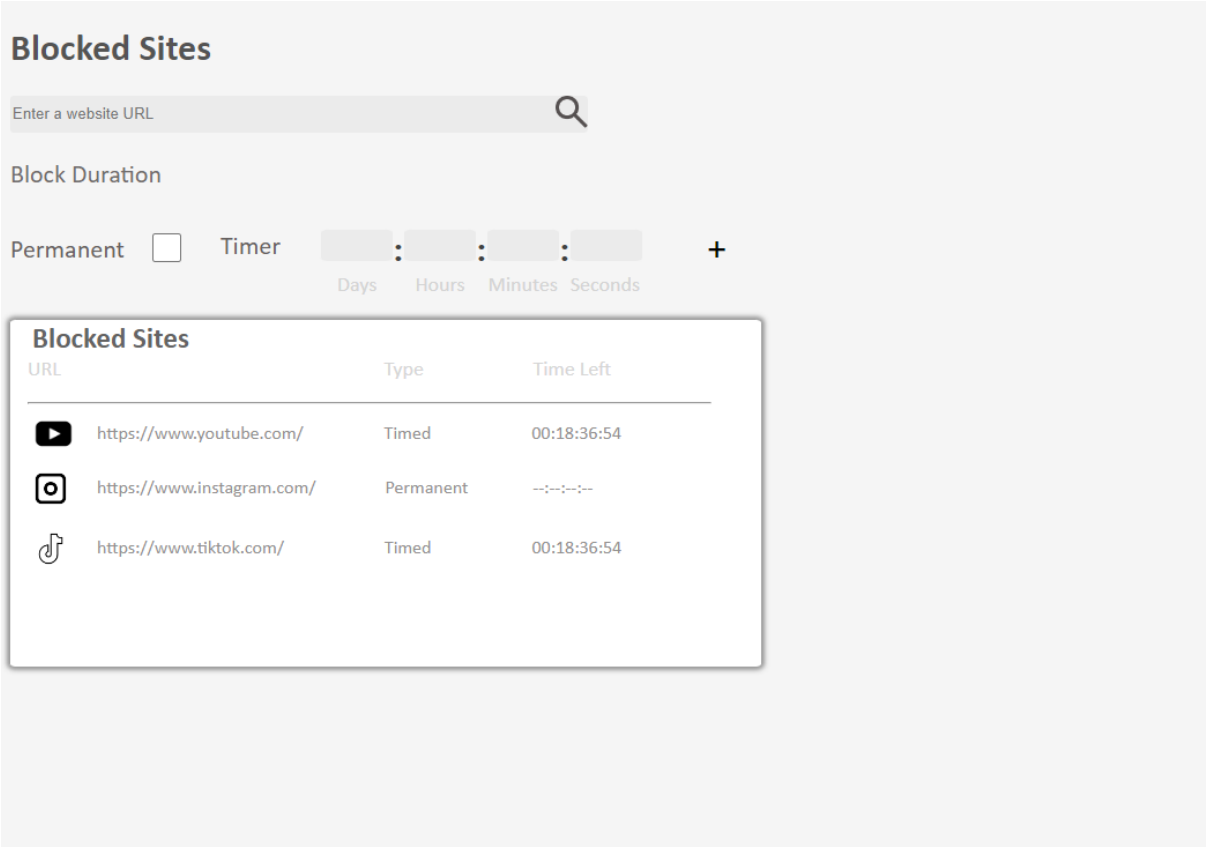
```
nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git push origin HEAD:MVP_Antiprocrastination
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for MVP_Antiprocrastination, visit:
remote:   https://git.cs.bham.ac.uk/team-projects-2022-23/team23-22/-/merge_requ
ests/new?merge_request%5Bsource_branch%5D=MVP_Antiprocrastination
remote:
To git.cs.bham.ac.uk:team-projects-2022-23/team23-22.git
 * [new branch]      HEAD -> MVP_Antiprocrastination

nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git commit
On branch MVP_Antiprocrastination
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/main/webapp/app/antiProcrastination/

nothing added to commit but untracked files present (use "git add" to track)

nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git add src/main/webapp/app/antiProcrastination/
warning: in the working copy of 'src/main/webapp/app/antiProcrastination/anti-pr
ocrastination.html', LF will be replaced by CRLF the next time Git touches it

nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git commit
[MVP_Antiprocrastination 1ed974f] created entirely new branch to try and fix ISS
UE
 8 files changed, 134 insertions(+)
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/YouTube-LOGO.
jpg
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/download.png
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/image.png
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/instagram.png
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/plus.png
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/plus1.png
 create mode 100644 src/main/webapp/app/antiProcrastination/Images/youtube.png
 create mode 100644 src/main/webapp/app/antiProcrastination/anti-procrastination
.html

nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git push
fatal: The current branch MVP_Antiprocrastination has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin MVP_Antiprocrastination

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.


nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ git push origin HEAD:MVP_Antiprocrastination
Enumerating objects: 21, done.
Counting objects: 100% (21/21), done.
Delta compression using up to 12 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (16/16), 30.11 KiB | 15.05 MiB/s, done.
Total 16 (delta 4), reused 10 (delta 0), pack-reused 0
remote:
remote: To create a merge request for MVP_Antiprocrastination, visit:
remote:   https://git.cs.bham.ac.uk/team-projects-2022-23/team23-22/-/merge_requ
ests/new?merge_request%5Bsource_branch%5D=MVP_Antiprocrastination
remote:
To git.cs.bham.ac.uk:team-projects-2022-23/team23-22.git
   0934232..1ed974f  HEAD -> MVP_Antiprocrastination

nasha@DESKTOP-J4H7H65 MINGW64 ~/team23-22 (MVP_Antiprocrastination)
$ npm run webapp:build
```



The reason why two branches are being displayed is because the initial branch i had created had problems with deployment meaning that it wouldn't successfully git push, so i recloned the original repo, added my changes and git pushed agained, for some reason this time it worked, and these are the changes shown in my old branch.

Added items to new branch




Blocked Sites
Enter a website URL
Block Duration
Permanent
Timer
Days
Hours
Minutes
Seconds
Blocked Sites
URL
Type
Time Left
https://www.youtube.com/
Timed
00:18:36:54
https://www.instagram.com/
Permanent
--:--:--:--
https://www.tiktok.com/
Timed
00:18:36:54