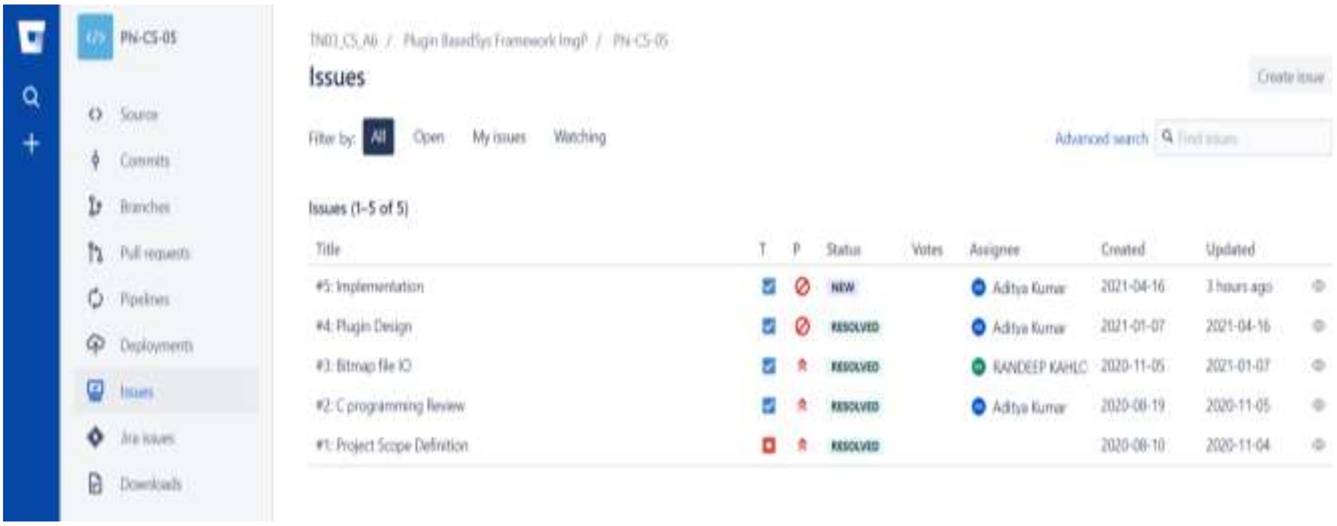
Department of Computer Engineering
Batch (2020 - 2021)

PLUGIN BASED SYSTEM FRAMEWORK FOR IMAGE PROCESSING

Project ID : TN03-CS-A6, PHI-CS-05
Project Guide : Prof. Vishwajit Gaikwad
Group Leader : Aditya Kumar
Group Members : Ankit Gore, Krupali Tayade, Priyanka Chikane

BIT BUCKET TASK STATUS

- **Issues List :**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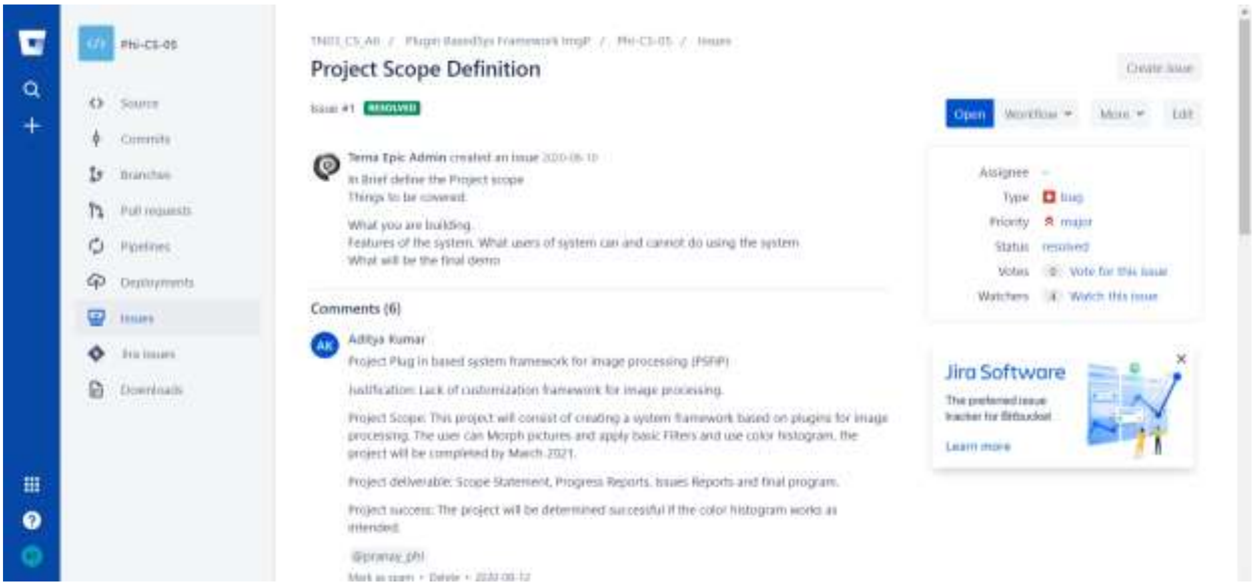
Issues

Issues (1-5 of 5)

Title	T	P	Status	Votes	Assignee	Created	Updated
#5: Implementation	☑	⊘	NEW		Aditya Kumar	2021-04-16	3 hours ago
#4: Plugin Design	☑	⊘	RESOLVED		Aditya Kumar	2021-01-07	2021-04-16
#3: Bitmap file IO	☑	⇑	RESOLVED		RANDEEP KAHLC	2020-11-05	2021-01-07
#2: C programming Review	☑	⇑	RESOLVED		Aditya Kumar	2020-08-19	2020-11-05
#1: Project Scope Definition	☒	⇑	RESOLVED			2020-08-10	2020-11-04

1) Issue 01 : Project Scope Definition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Project Scope Definition

Issue #1 RESOLVED

Terna Epic Admin created an issue 2020-08-10

In Brief define the Project scope
Things to be covered:

What you are building.
Features of the system. What users of system can and cannot do using the system
What will be the final demo

Assignee: –
Type: bug
Priority: major
Status: resolved
Votes: 0 Vote for this issue
Watchers: 1 Watch this issue

Comments (6)

Aditya Kumar

Project: Plug in based system framework for image processing (PSFIP)

Justification: Lack of customization framework for image processing.

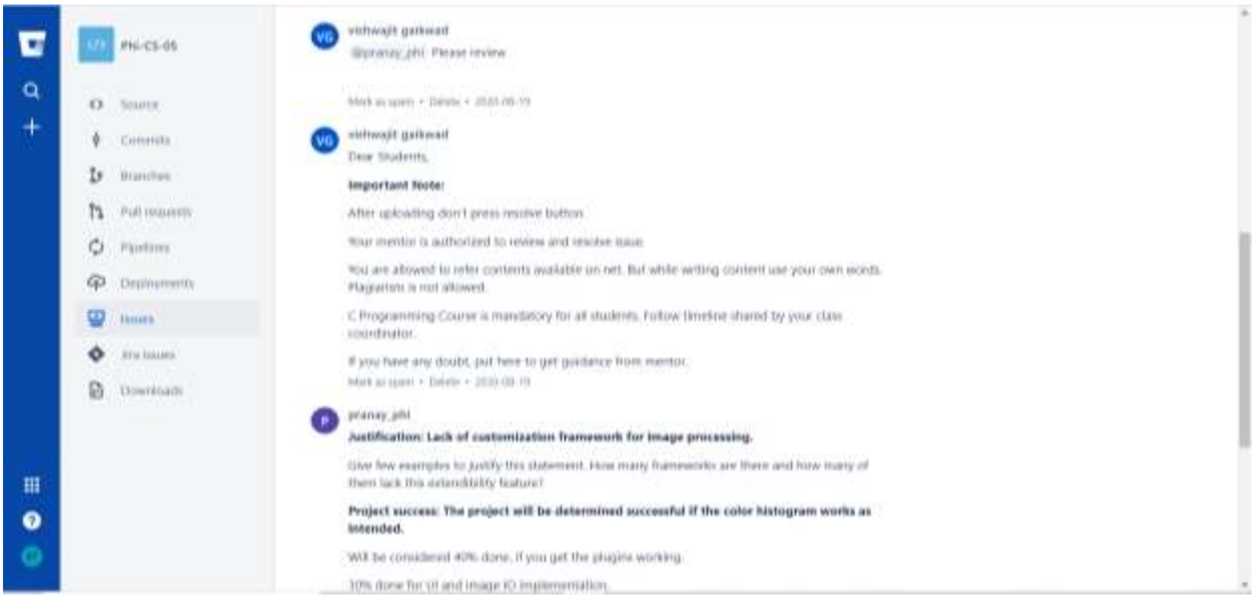
Project Scope: This project will consist of creating a system framework based on plugins for image processing. The user can Morph pictures and apply basic Filters and use color histogram. the project will be completed by March 2021.

Project deliverable: Scope Statement, Progress Reports, Issues Reports and final program.

Project success: The project will be determined successful if the color histogram works as intended.

@pranay_phi

Mark as spam • Delete • 2020-08-12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vishwajit gaikwad

@pranay_phi Please review

Mark as spam • Delete • 2020-08-19

vishwajit gaikwad

Dear Students,

Important Note:

After uploading don't press resolve button.

Your mentor is authorized to review and resolve issue.

You are allowed to refer contents available on net. But while writing content use your own words. Plagiarism is not allowed.

C Programming Course is mandatory for all students. Follow timeline shared by your class coordinator.

If you have any doubt, put here to get guidance from mentor.

Mark as spam • Delete • 2020-08-19

pranay_phi

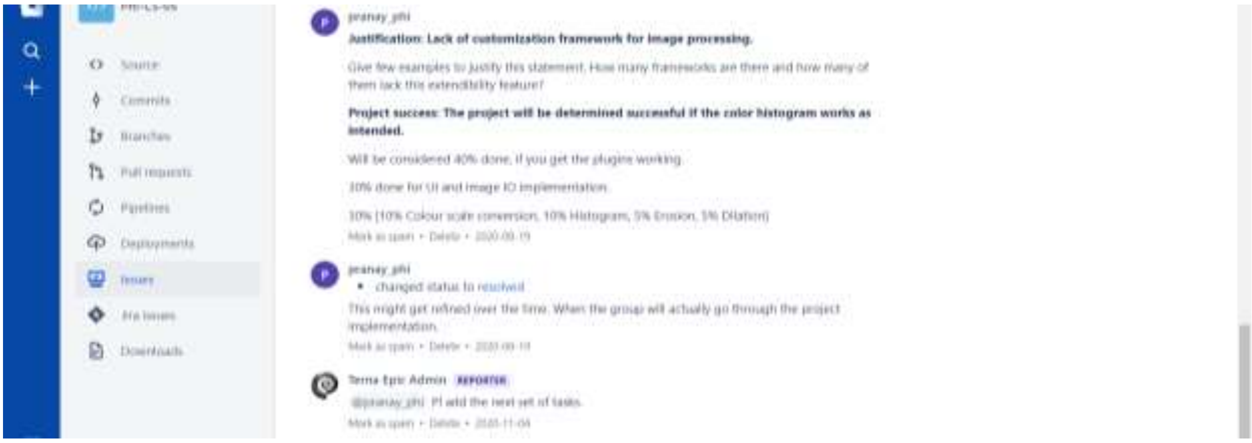
Justification: Lack of customization framework for image processing.

Give few examples to justify this statement. How many frameworks are there and how many of them lack this extendibility feature?

Project success: The project will be determined successful if the color histogram works as intended.

Will be considered 40% done, if you get the plugins working.

30% done for UI and image IO implementation.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pranay_phi

Justification: Lack of customization framework for image processing.

Give few examples to justify this statement. How many frameworks are there and how many of them lack this extendibility feature?

Project success: The project will be determined successful if the color histogram works as intended.

Will be considered 40% done, if you get the plugins working.

30% done for UI and image IO implementation.

30% (10% Colour scale conversion, 10% Histogram, 5% Erosion, 5% Dilation)

Mark as spam • Delete • 2020-08-19

pranay_phi

- changed status to resolved

This might get refined over the time. When the group will actually go through the project implementation.

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Terna Epic Admin REPORTER

@pranay_phi Pl add the next set of tasks.

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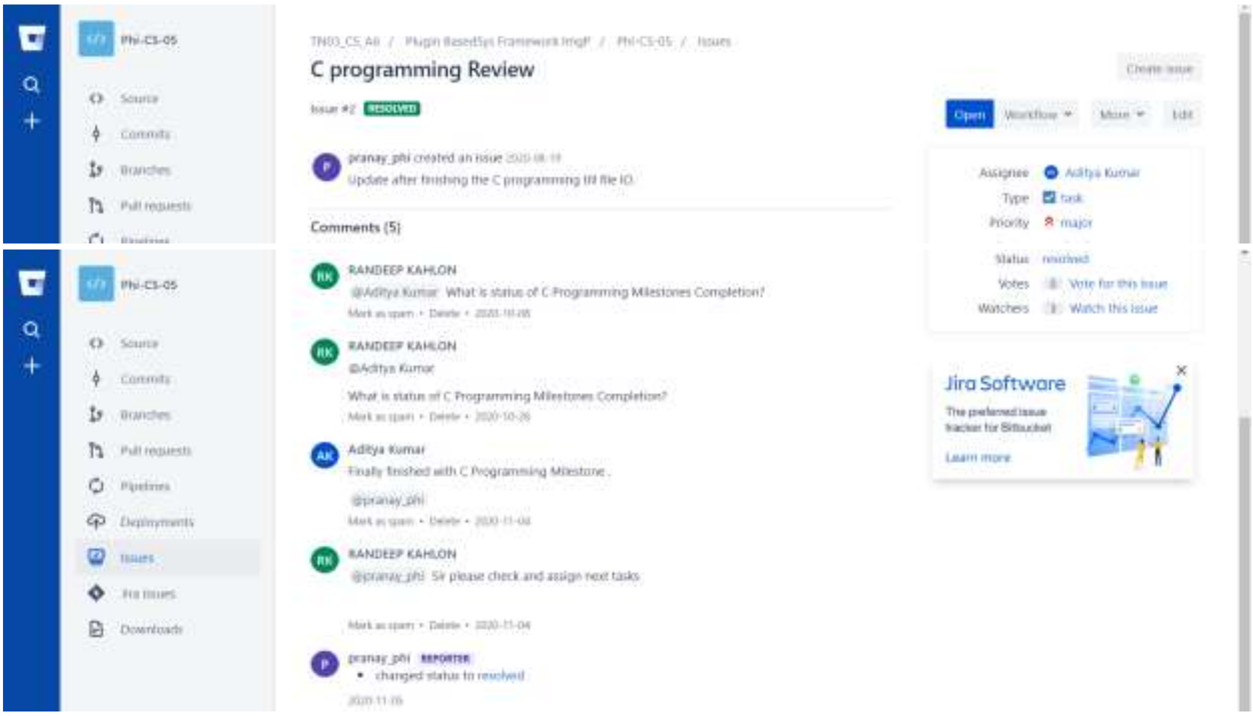
2) Issue 02 : C Programming Review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C programming Review

Issue #2 RESOLVED

pranay_phi created an issue 2020-08-19
Update after finishing the C programming till file IO.

Comments (5)

RANDEEP KAHLON
@Aditya Kumar What is status of C Programming Milestones Completion?
Mark as spam • Delete • 2020-10-28

RANDEEP KAHLON
@Aditya Kumar
What is status of C Programming Milestones Completion?
Mark as spam • Delete • 2020-10-26

Aditya Kumar
Finally finished with C Programming Milestone .
@pranay_phi
Mark as spam • Delete • 2020-11-04

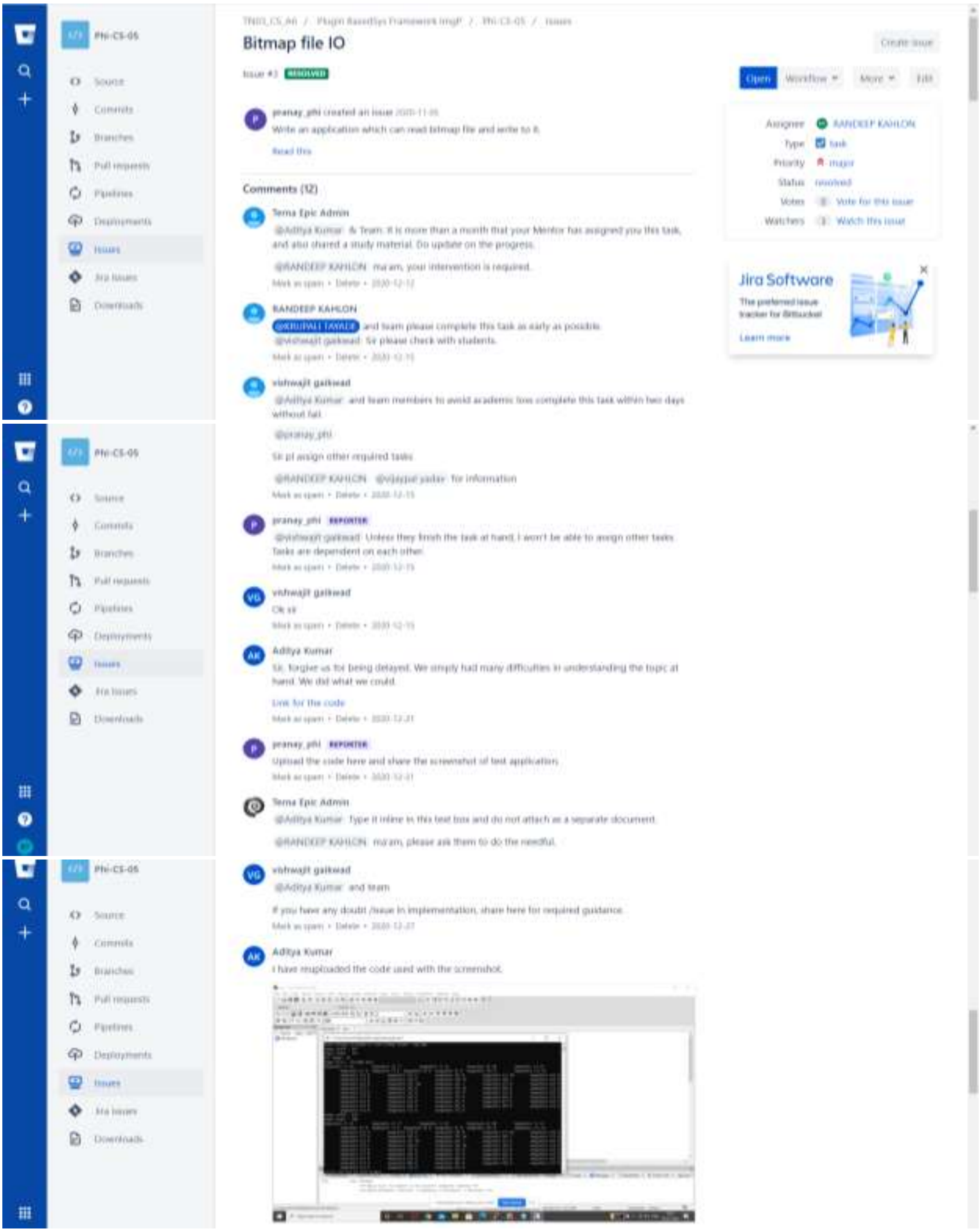
RANDEEP KAHLON
@pranay_phi Sir please check and assign next tasks
Mark as spam • Delete • 2020-11-04

pranay_phi REPORTER
- changed status to resolved

2020-11-05

Assignee: Aditya Kumar
Type: task
Priority: major
Status: resolved
Votes: 0 Vote for this issue
Watchers: 1 Watch this issue

3) Issue 03 : Bitmap File IO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Bitmap file IO

Issue #3 RESOLVED

Assignee: RANDEEP KAHLON
Type: task
Priority: major
Status: resolved
Votes: 0 Vote for this issue
Watchers: 1 Watch this issue

pranay_phi created an issue 2020-11-05

Write an application which can read bitmap file and write to it.

Read this

Comments (12)

Terna Epic Admin

@Aditya Kumar & Team. It is more than a month that your Mentor has assigned you this task, and also shared a study material. Do update on the progress.

@RANDEEP KAHLON ma'am, your intervention is required.

Mark as spam • Delete • 2020-12-12

RANDEEP KAHLON

@KRUPALI TAWDE and team please complete this task as early as possible.
@vishwajit gaikwad Sir please check with students.

Mark as spam • Delete • 2020-12-15

vishwajit gaikwad

@Aditya Kumar and team members to avoid academic loss complete this task within two days without fail.

@pranay_phi

Sir pl assign other required tasks

@RANDEEP KAHLON @vijaypal yadav for information

Mark as spam • Delete • 2020-12-15

pranay_phi REPORTER

@vishwajit gaikwad Unless they finish the task at hand, I won't be able to assign other tasks. Tasks are dependent on each other.

Mark as spam • Delete • 2020-12-15

vishwajit gaikwad

Ok sir

Mark as spam • Delete • 2020-12-15

Aditya Kumar

Sir, forgive us for being delayed. We simply had many difficulties in understanding the topic at hand. We did what we could.

Link for the code

Mark as spam • Delete • 2020-12-21

pranay_phi REPORTER

Upload the code here and share the screenshot of test application.

Mark as spam • Delete • 2020-12-21

Terna Epic Admin

@Aditya Kumar Type it inline in this text box and do not attach as a separate document.

@RANDEEP KAHLON ma'am, please ask them to do the needful.

vishwajit gaikwad

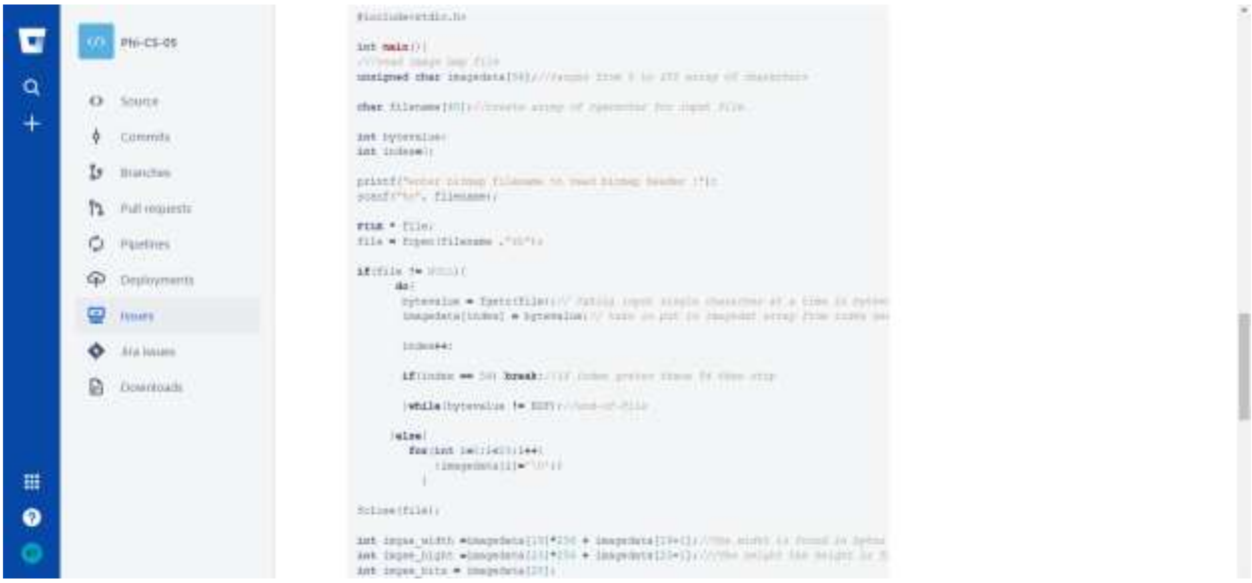
@Aditya Kumar and team

If you have any doubt /issue in implementation, share here for required guidance.

Mark as spam • Delete • 2020-12-27

Aditya Kumar

I have reuploaded the code used with the screenshot.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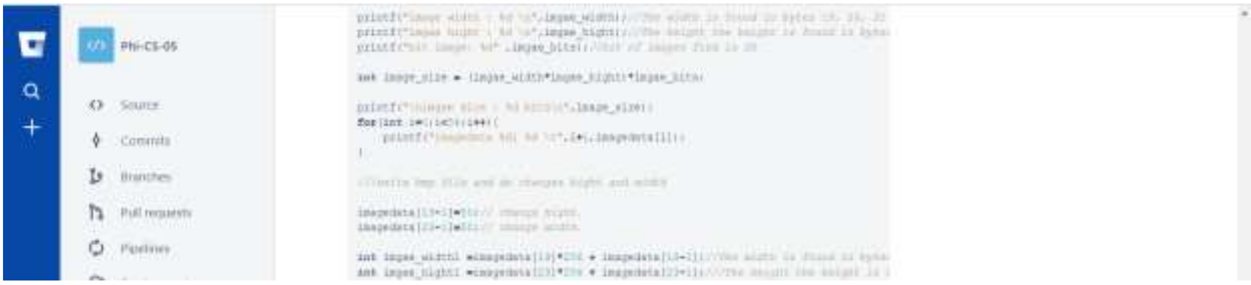
```
#include<stdio.h>

int main(){
//read image bmp file
unsigned char imagedata[54];//[illegible]

char filename[40];//create array of character for input file

int bytevalue;
int index=0;

printf("enter bitmap filename to read bitmap header :");
scanf("%s", filename);

FILE * file;
file = fopen(filename ,"rb");

if(file != NULL){
     do{
       bytevalue = fgetc(file);// [illegible]
       imagedata[index] = bytevalue;// [illegible]

       index++;

       if(index == 54) break;//if index greter than 54 then stop

       }while(bytevalue != EOF);//end-of-file

    }else{
      for(int i=0;i<54;i++){
          imagedata[i]='\0';}
         }

fclose(file);

int image_width =imagedata[19]*256 + imagedata[19+1];//[illegible]
int image_hight =imagedata[23]*256 + imagedata[23+1];//[illegible]
int image_bits = imagedata[27];
```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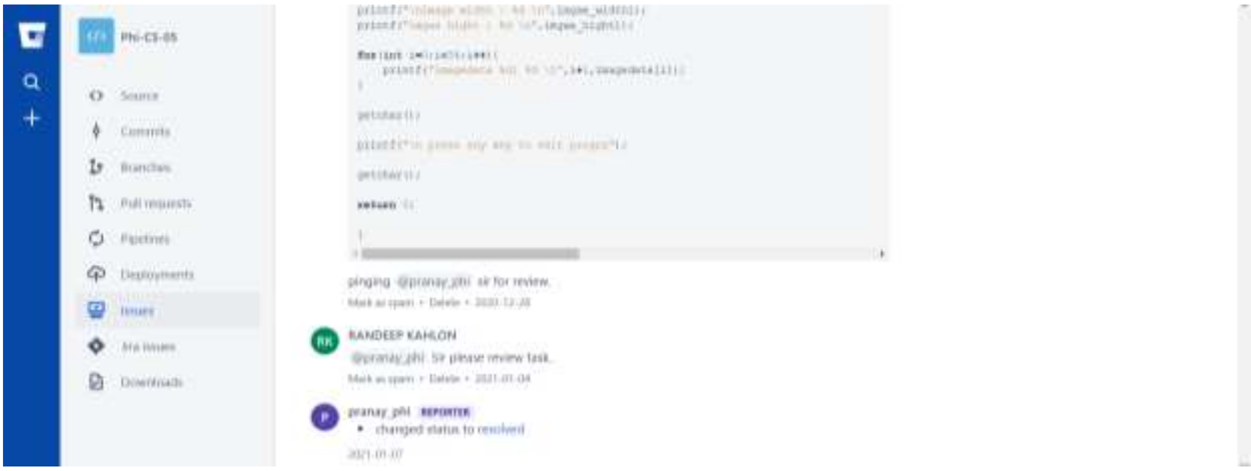
```
printf("image width : %d \n",image_width);//[illegible]
printf("image hight : %d \n",image_hight);//[illegible]
printf("bit image: %d" ,image_bits);//[illegible]

int image_size = (image_width*image_hight)*image_bits;

printf("\nimage size : %d bits\n",image_size);
for(int i=0;i<54;i++){
   printf("imagedata %d: %d \n",i+1,imagedata[i]);
}

//write bmp file and do changes hight and width

imagedata[19-1]=[illegible];// change hight
imagedata[23-1]=[illegible];// change width

int image_width1 =imagedata[19]*256 + imagedata[19-1];//[illegible]
int image_hight1 =imagedata[23]*256 + imagedata[23+1];//[illegible]
```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```
printf("\nimage width : %d \n",image_width1);
printf("image hight : %d \n",image_hight1);

for(int i=0;i<54;i++){
   printf("imagedata %d: %d \n",i+1,imagedata[i]);
}

getchar();

printf("\n press any key to exit progra");

getchar();

return 0;

}
```

pinging @pranay_phi sir for review.

Mark as spam • Delete • 2020-12-28

RANDEEP KAHLON

@pranay_phi Sir please review task.

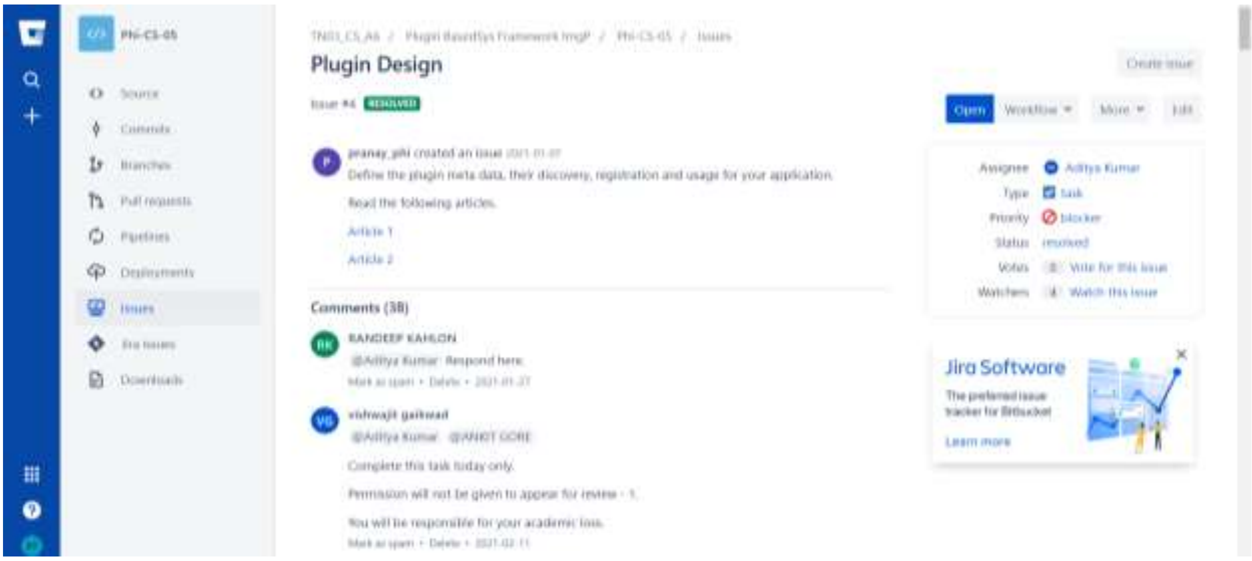
Mark as spam • Delete • 2021-01-04

pranay_phi REPORTER

- changed status to resolved

2021-01-07

4) Issue 04 : Plugin Design



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Plugin Design

Issue #4 RESOLVED

pranay_phi created an issue 2021-01-07

Define the plugin meta data, their discovery, registration and usage for your application.

Read the following articles.

Article 1

Article 2

Assignee: Aditya Kumar
Type: task
Priority: blocker
Status: resolved
Votes: 0 Vote for this issue
Watchers: 4 Watch this issue

Comments (38)

RANDEEP KAHLON

@Aditya Kumar Respond here.

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vishwajit gaikwad

@Aditya Kumar @ANKIT GORE

Complete this task today only.

Permission will not be given to appear for review - 1.

You will be responsible for your academic loss.

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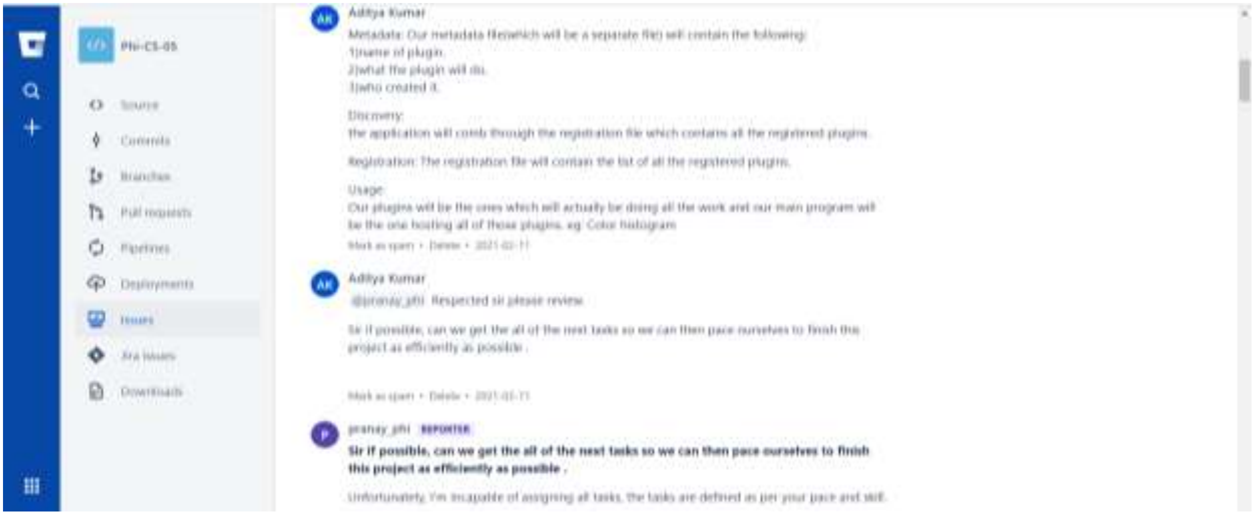


Aditya Kumar

Metadata: Our metadata file(which will be a separate file) will contain the following:
1)name of plugin.
2)what the plugin will do.
3)who created it.

Discovery:
the application will comb through the registration file which contains all the registered plugins.

Registration: The registration file will contain the list of all the registered plugins.

Usage:
Our plugins will be the ones which will actually be doing all the work and our main program will be the one hosting all of those plugins. eg: Color histogram

Mark as spam • Delete • 2021-02-11

Aditya Kumar

@pranay_phi Respected sir please review.

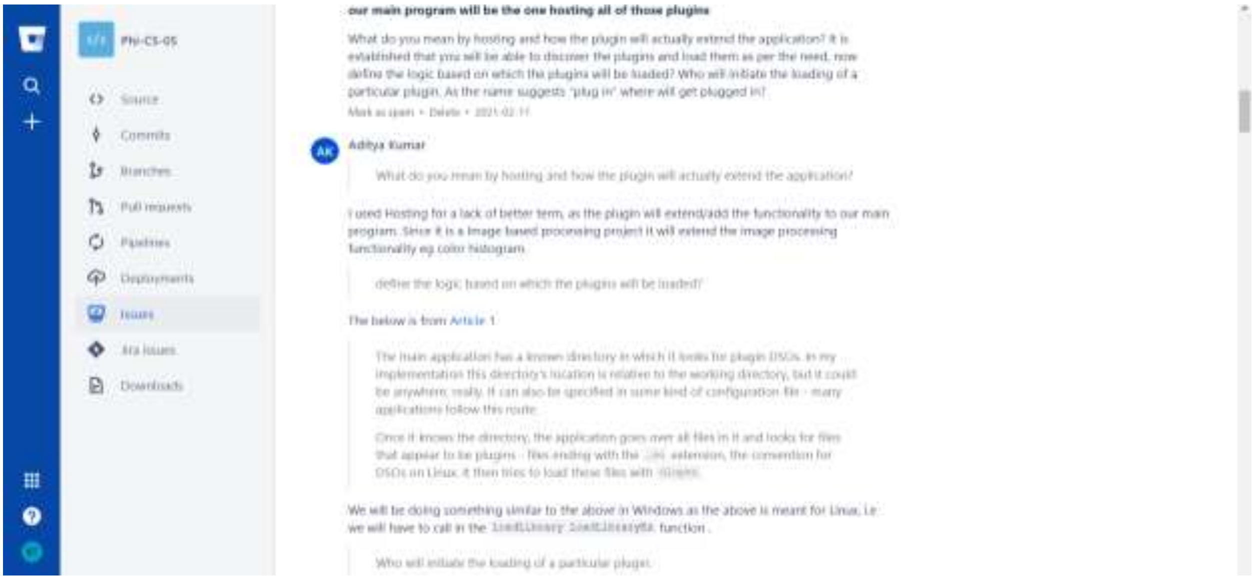
Sir if possible, can we get the all of the next tasks so we can then pace ourselves to finish this project as efficiently as possible .

Mark as spam • Delete • 2021-02-11

pranay_phi REPORTER

Sir if possible, can we get the all of the next tasks so we can then pace ourselves to finish this project as efficiently as possible .

Unfortunately, I'm incapable of assigning all tasks, the tasks are defined as per your pace and skill.



our main program will be the one hosting all of those plugins

What do you mean by hosting and how the plugin will actually extend the application? It is established that you will be able to discover the plugins and load them as per the need, now define the logic based on which the plugins will be loaded? Who will initiate the loading of a particular plugin. As the name suggests "plug in" where will get plugged in?

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Aditya Kumar

> What do you mean by hosting and how the plugin will actually extend the application?

I used Hosting for a lack of better term, as the plugin will extend/add the functionality to our main program. Since it is a image based processing project it will extend the image processing functionality eg color histogram

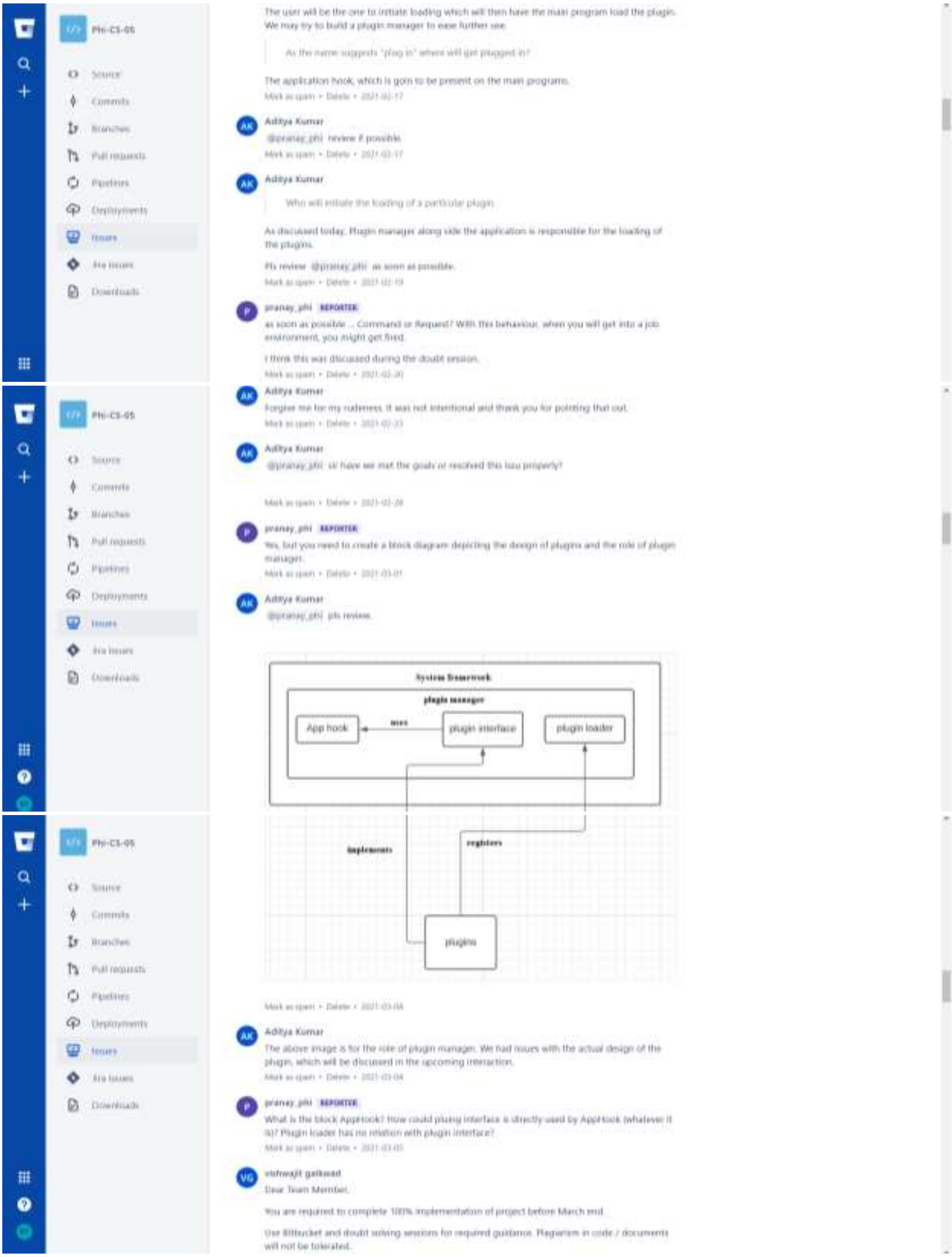
> define the logic based on which the plugins will be loaded?

The below is from Article 1

> The main application has a known directory in which it looks for plugin DSOs. In my implementation this directory's location is relative to the working directory, but it could be anywhere, really. It can also be specified in some kind of configuration file - many applications follow this route.
>
> Once it knows the directory, the application goes over all files in it and looks for files that appear to be plugins - files ending with the `.so` extension, the convention for DSOs on Linux. It then tries to load these files with `dlopen`.

We will be doing something similar to the above in Windows as the above is meant for Linux, i.e we will have to call in the `LoadLibrary` `LoadLibraryEx` function .

> Who will initiate the loading of a particular plugin.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System framework
plugin manager
App hook
uses
plugin interface
plugin loader
implements
registers
plugins

The user will be the one to initiate loading which will then have the main program load the plugin. We may try to build a plugin manager to ease further use.

> As the name suggests "plug in" where will get plugged in?

The application hook, which is goin to be present on the main programs.

Mark as spam • Delete • 2021-02-17

Aditya Kumar

@pranay_phi review if possible.

Mark as spam • Delete • 2021-02-17

Aditya Kumar

> Who will initiate the loading of a particular plugin.

As discussed today, Plugin manager along side the application is responsible for the loading of the plugins.

Pls review @pranay_phi as soon as possible.

Mark as spam • Delete • 2021-02-19

pranay_phi REPORTER

as soon as possible ... Command or Request? With this behaviour, when you will get into a job environment, you might get fired.

I think this was discussed during the doubt session.

Mark as spam • Delete • 2021-02-20

Aditya Kumar

Forgive me for my rudeness. It was not intentional and thank you for pointing that out.

Mark as spam • Delete • 2021-02-23

Aditya Kumar

@pranay_phi sir have we met the goals or resolved this isuu properly?

Mark as spam • Delete • 2021-02-28

pranay_phi REPORTER

Yes, but you need to create a block diagram depicting the design of plugins and the role of plugin manager.

Mark as spam • Delete • 2021-03-01

Aditya Kumar

@pranay_phi pls review.

Mark as spam • Delete • 2021-03-04

Aditya Kumar

The above image is for the role of plugin managen. We had issues with the actual design of the plugin, which will be discussed in the upcoming interaction.

Mark as spam • Delete • 2021-03-04

pranay_phi REPORTER

What is the block AppHook? How could pluing interface is directly used by AppHook (whatever it is)? Plugin loader has no relation with plugin interface?

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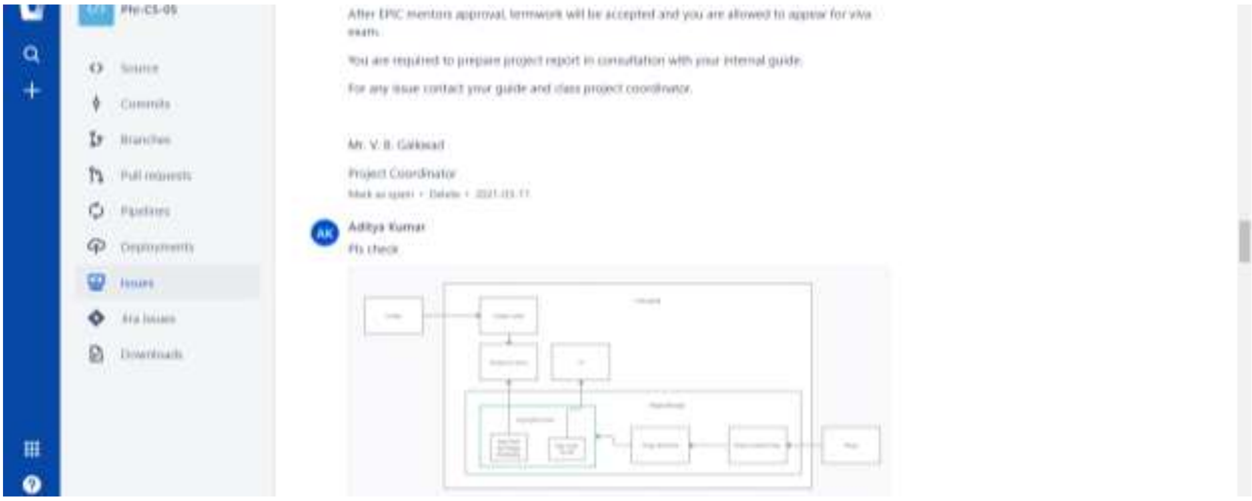
vishwajit gaikwad

Dear Team Member,

You are required to complete 100% implementation of project before March end.

Use Bitbucket and doubt solving sessions for required guidance. Plagiarism in code / documents will not be tolerated.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After EPIC mentors approval, termwork will be accepted and you are allowed to appear for viva exam.

You are required to prepare project report in consultation with your internal guide.

For any issue contact your guide and class project coordinator.

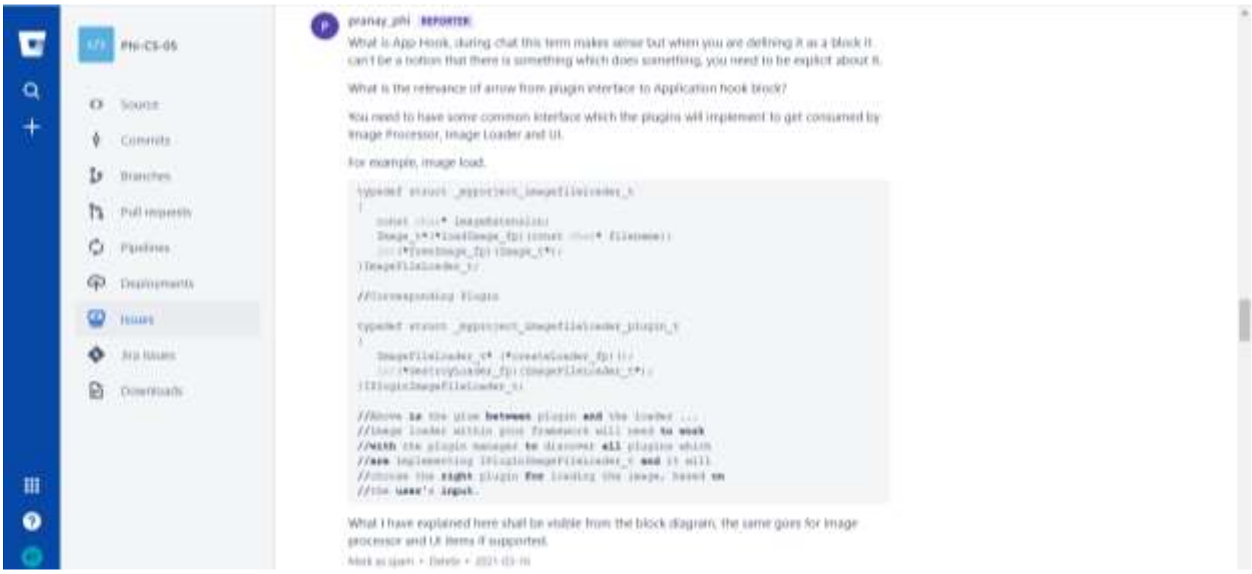
Mr. V. B. Gaikwad

Project Coordinator

Mark as spam • Delete • 2021-03-11

Aditya Kumar

Pls check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pranay_phi REPORTER

What is App Hook, during chat this term makes sense but when you are defining it as a block it can't be a notion that there is something which does something, you need to be explicit about it.

What is the relevance of arrow from plugin interface to Application hook block?

You need to have some common interface which the plugins will implement to get consumed by Image Processor, Image Loader and UI.

For example, image load.

```
typedef struct _myproject_imagefileloader_t
{
   const char* imageExtension;
   Image_t*(*loadImage_fp)(const char* filename);
   int (*freeImage_fp)(Image_t*);
}ImageFileLoader_t;

//Corresponding Plugin

typedef struct _myproject_imagefileloader_plugin_t
{
   ImageFileLoader_t* (*createLoader_fp)();
   int (*destroyLoader_fp)(ImageFileLoader_t*);
}IPluginImageFileLoader_t;

//Above is the glue between plugin and the loader ...
//image loader within your framework will need to work
//with the plugin manager to discover all plugins which
//are implementing IPluginImageFileLoader_t and it will
//choose the right plugin for loading the image, based on
//the user's input.
```

What I have explained here shall be visible from the block diagram, the same goes for image processor and UI items if supported.

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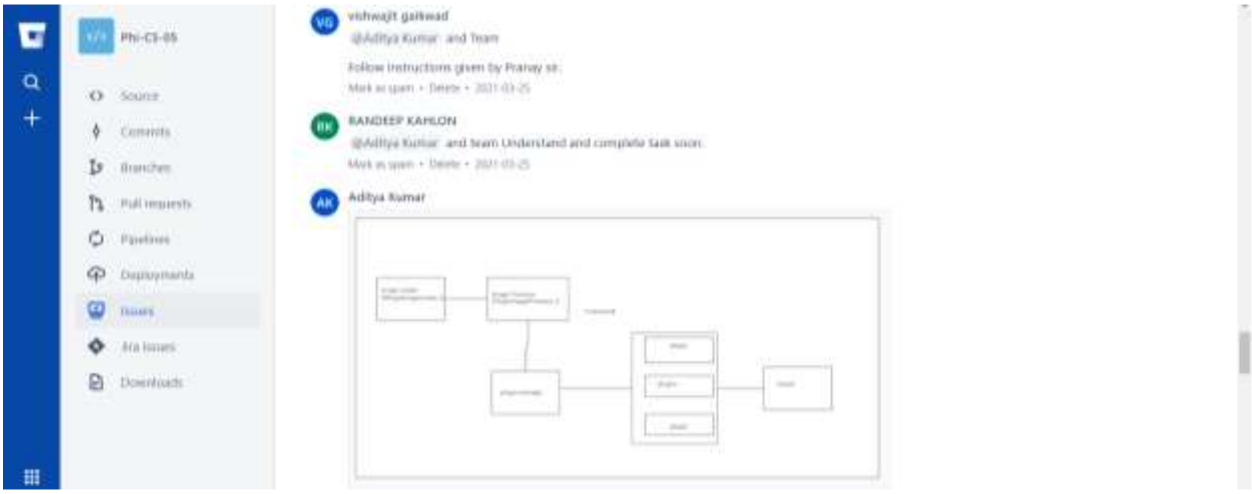
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vishwajit gaikwad

@Aditya Kumar and Team

Follow instructions given by Pranay sir.

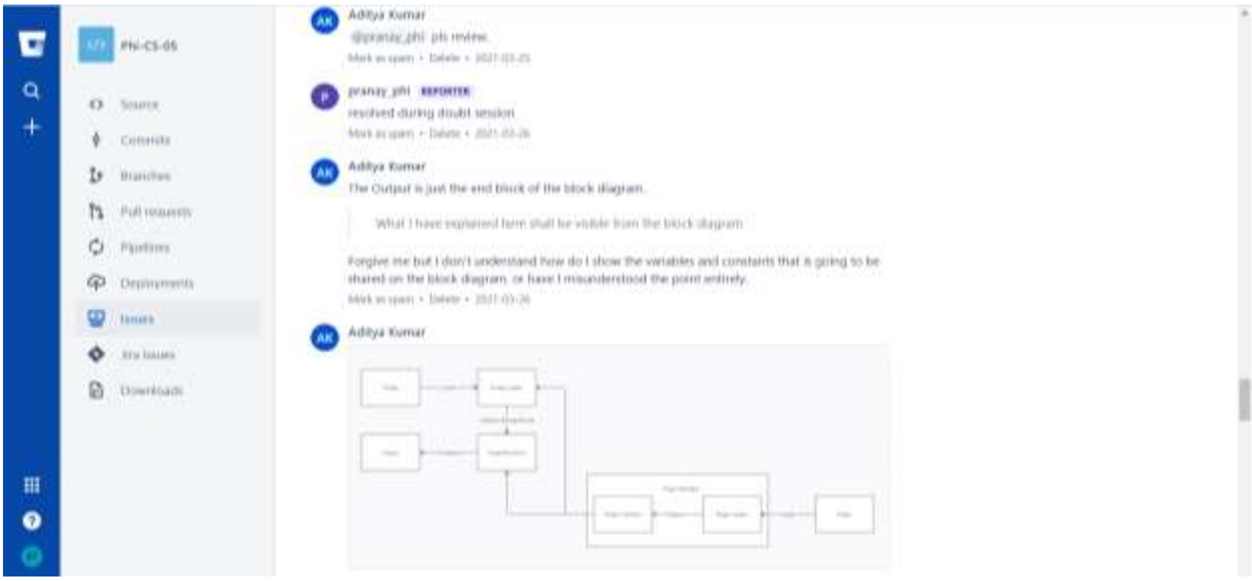
Mark as spam • Delete • 2021-03-25

RANDEEP KAHLON

@Aditya Kumar and team Understand and complete task soon.

Mark as spam • Delete • 2021-03-25

Aditya Kumar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Aditya Kumar
@pranay_phi pls review.
Mark as spam • Delete • 2021-03-25

pranay_phi REPORTER
resolved during doubt session.
Mark as spam • Delete • 2021-03-26

Aditya Kumar
The Output is just the end block of the block diagram.

> What I have explained here shall be visible from the block diagram

Forgive me but I don't understand how do I show the variables and constants that is going to be shared on the block diagram. or have I misunderstood the point entirely.
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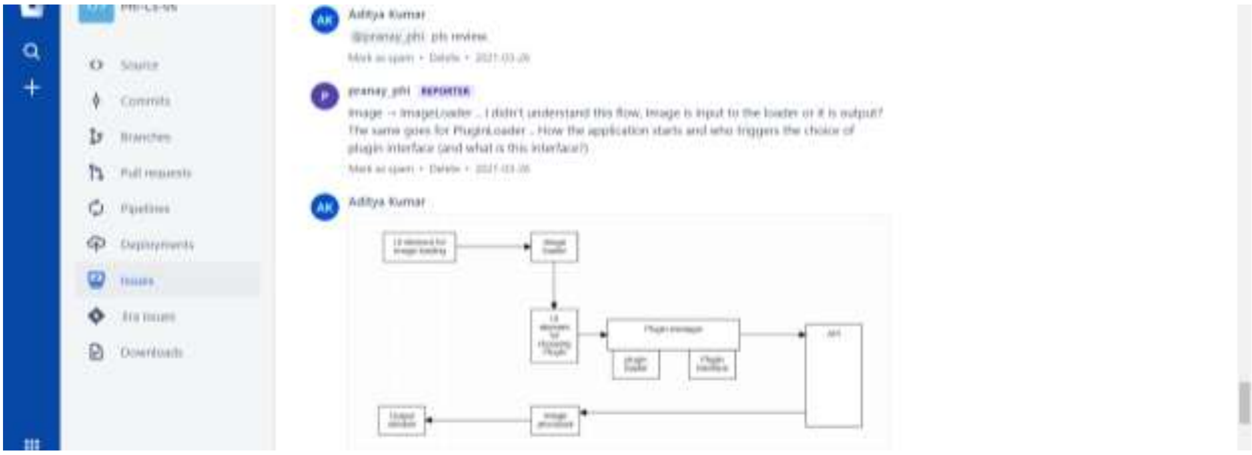
Aditya Kumar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UI element for image loading
Image loader
UI element for choosing Plugin
Plugin manager
plugin loader
Plugin interface
API
Output window
Image processor

Aditya Kumar
@pranay_phi pls review.
Mark as spam • Delete • 2021-03-26

pranay_phi REPORTER
Image → ImageLoader .. I didn't understand this flow, Image is input to the loader or it is output? The same goes for PluginLoader .. How the application starts and who triggers the choice of plugin interface (and what is this interface?)
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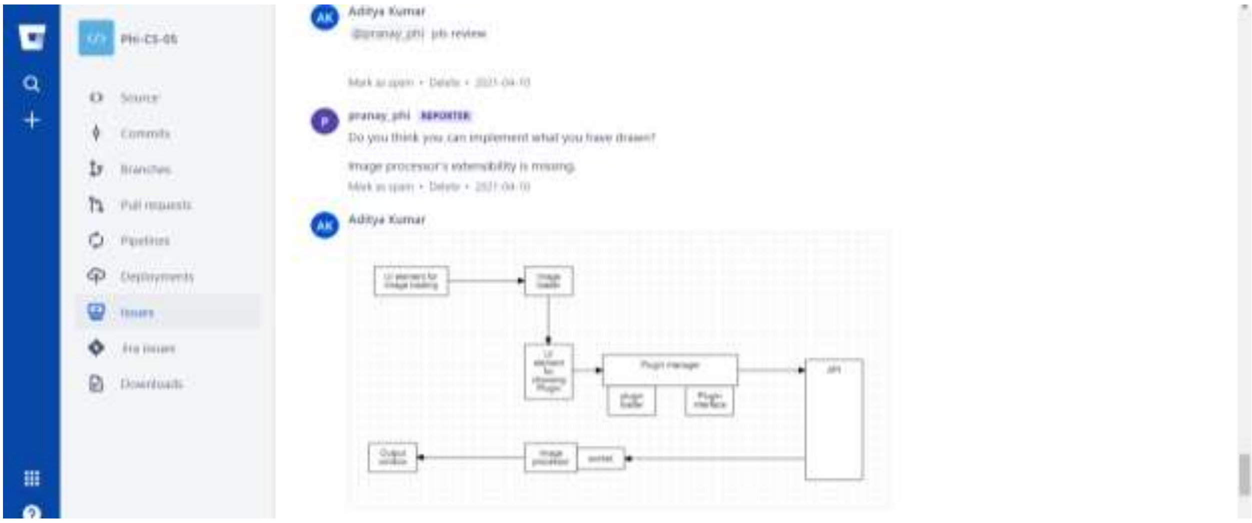
Aditya Kumar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UI element for image loading
Image loader
UI element for choosing Plugin
Plugin manager
plugin loader
Plugin interface
API
Output window
Image processor

Aditya Kumar
@pranay_phi pls review

Mark as spam • Delete • 2021-04-10

pranay_phi REPORTER
Do you think you can implement what you have drawn?

Image processor's extensibility is missing.
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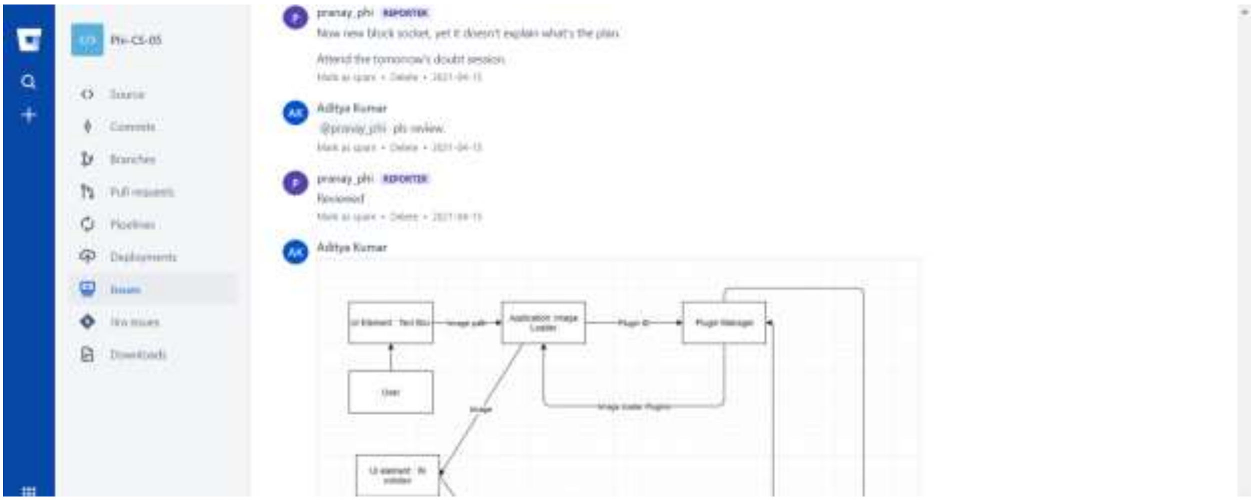
Aditya Kumar


Phi-CS-05
Source
Commits
Branches
Pull requests
Pipelines
Deployments
Issues
Jira issues
Downloads
UI Element : Text Box
Image path
Application : Image Loader
Plugin ID
Plugin Manager
User
Image
Image loader Plugins
UI element : IN window

pranay_phi REPORTER

Now new block socket, yet it doesn't explain what's the plan.

Attend the tomorrow's doubt session.

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Aditya Kumar

@pranay_phi pls review.

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pranay_phi REPORTER

Reviewed

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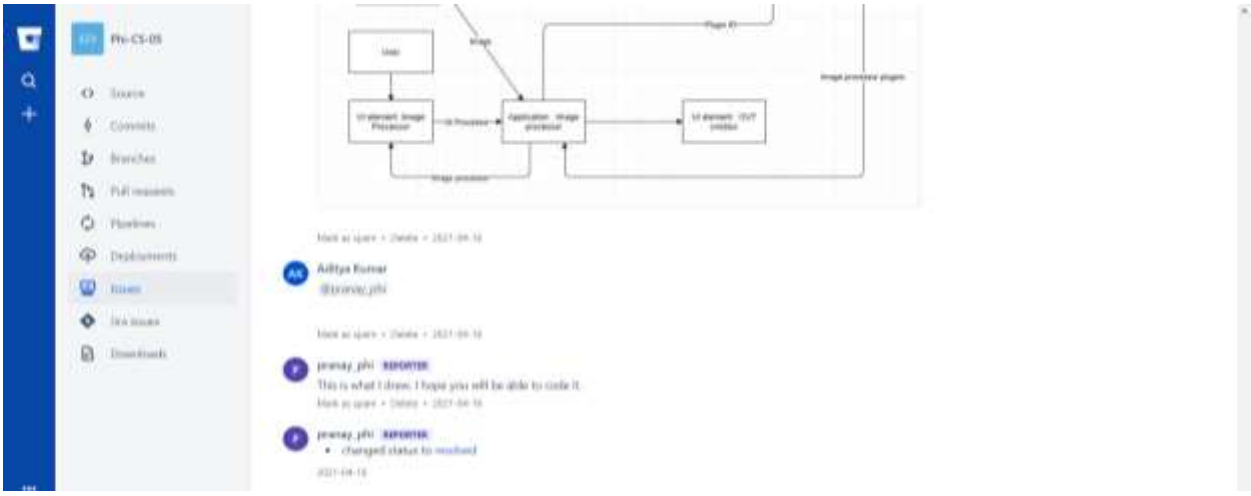
Aditya Kumar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Source
Commits
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Jira issues
Downloads
Plugin ID
Image
User
Image processor plugin
UI element : Image Processor
UI Processor
Application : Image processor
UI element : OUT window
Image processor

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Aditya Kumar

@pranay_phi

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pranay_phi REPORTER

This is what I drew. I hope you will be able to code it.

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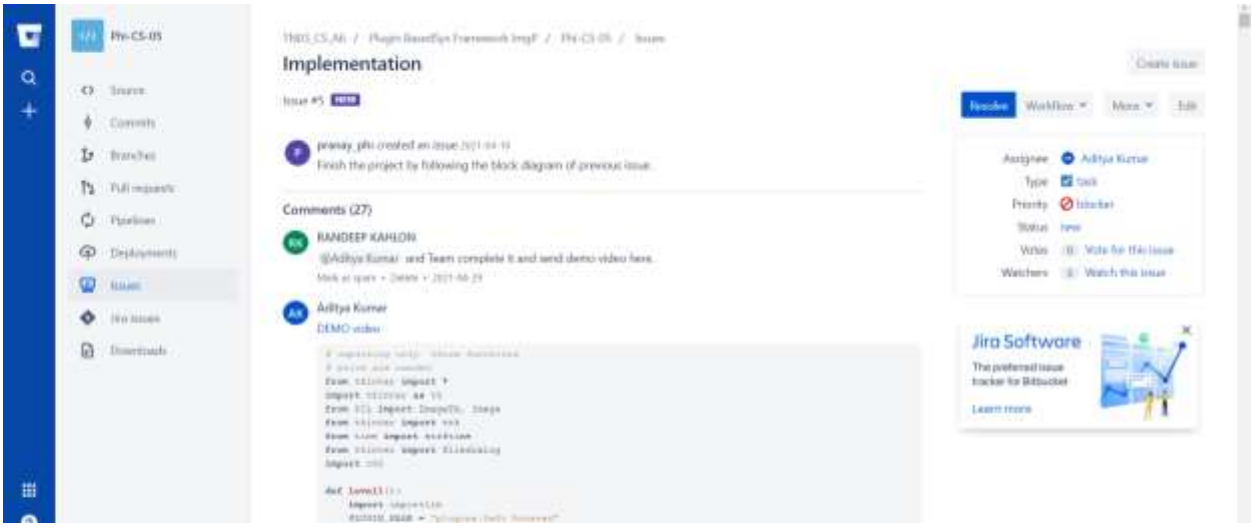
pranay_phi REPORTER

- changed status to resolved

2021-04-16

5) Issue 05 : Implementation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Implementation

Issue #5

pranay_phi created an issue
Finish the project by following the block diagram of previous issue.

Comments (27)

RANDEEP KAHLON
@Aditya Kumar and Team complete it and send demo video here.

Aditya Kumar
DEMO video

Assignee Aditya Kumar
Type task
Priority blocker
Status new

Phi-CS-05
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Phi-CS-05
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Jira issues
Downloads

PN-CS-05
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Jira issues
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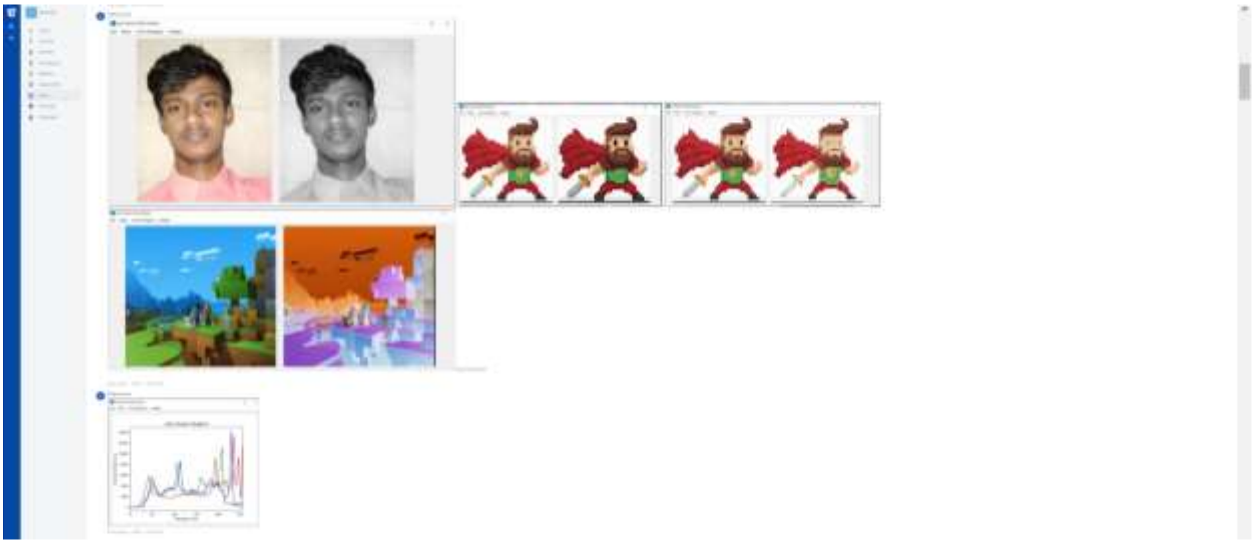

PN-CS-05
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Pull requests
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Downloads

pranay_phl REPORTER

In Python there was hardly anything to be done in the project. I wonder when the language got changed.

@Tema Epic Admin Remove this project from my list. The group is in autonomous mode.

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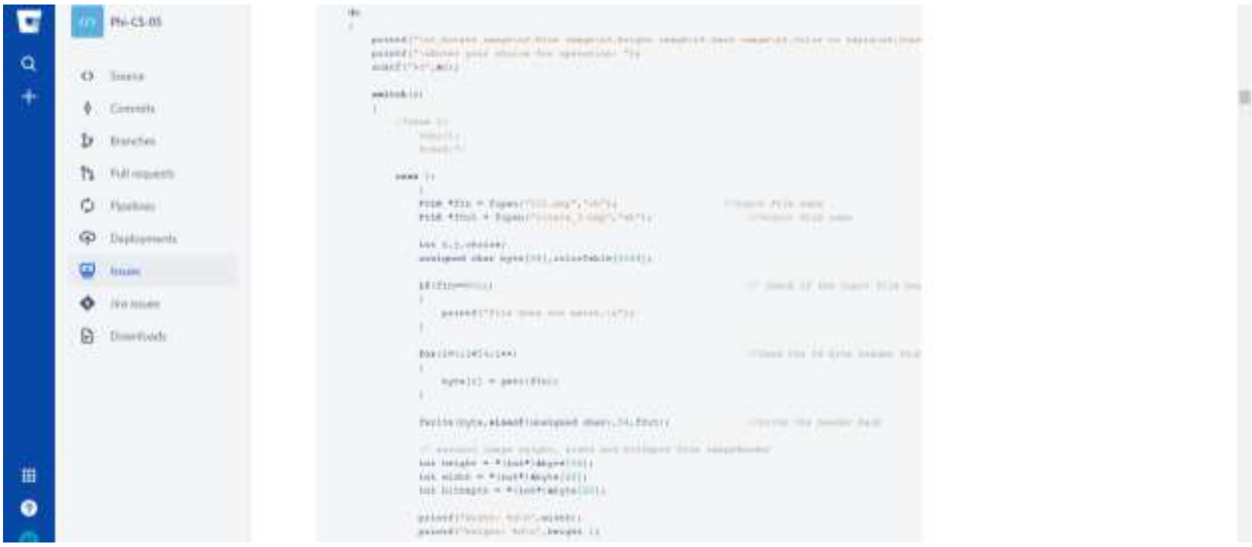
Aditya Kumar

Sir,

Please forgive us. We had a couple of issues at hand before the demo/industrial review.

1)Demo : we also had an industrial demo to show, which was not visible with the c program. As such we built the python code as a backup incase we couldnt implement the gui in the program.

2)The GUI : we were not able to implement the gui at all in C.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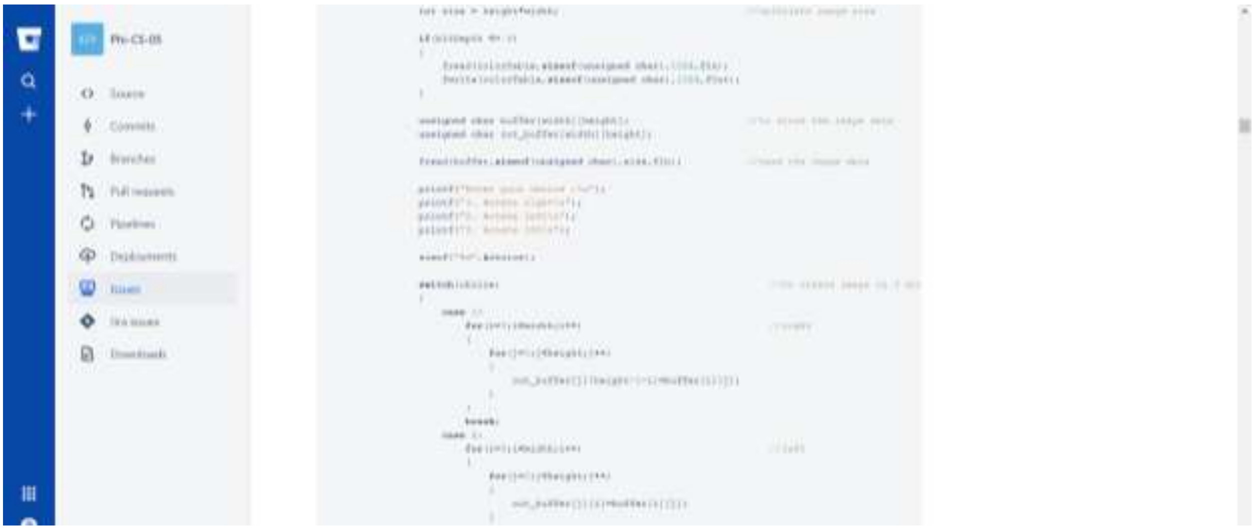
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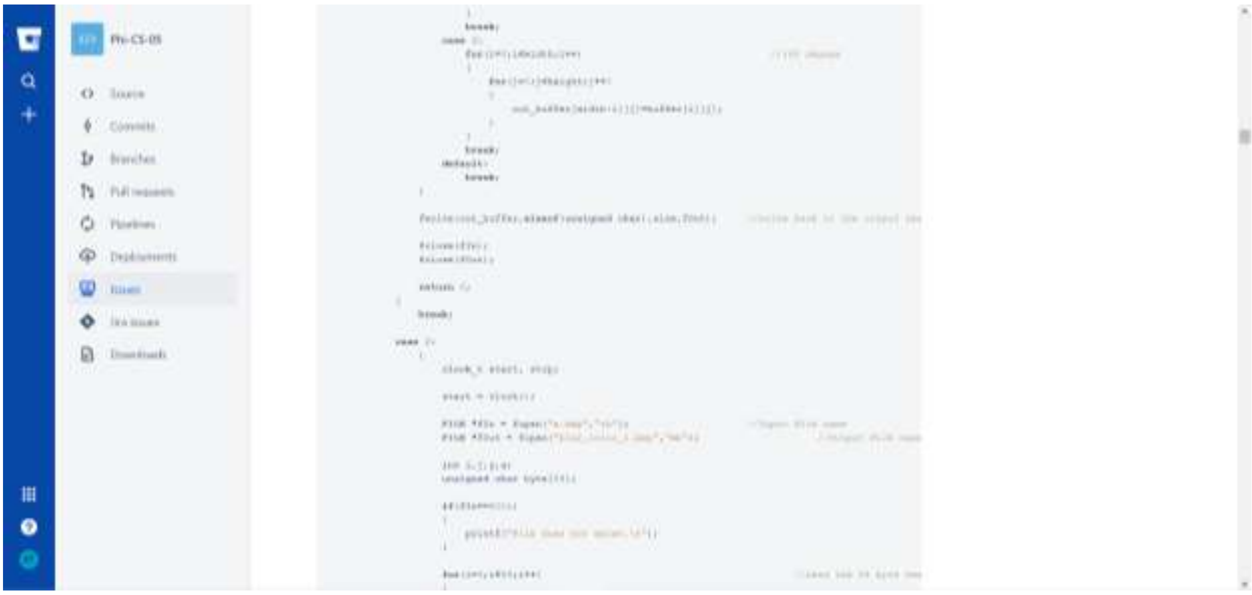
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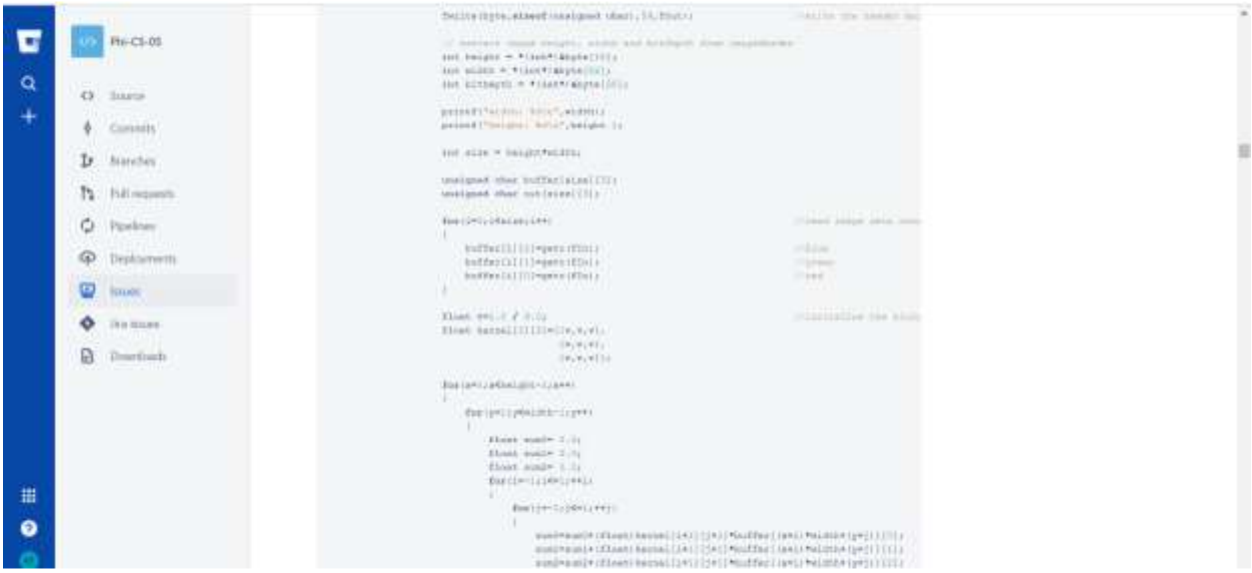
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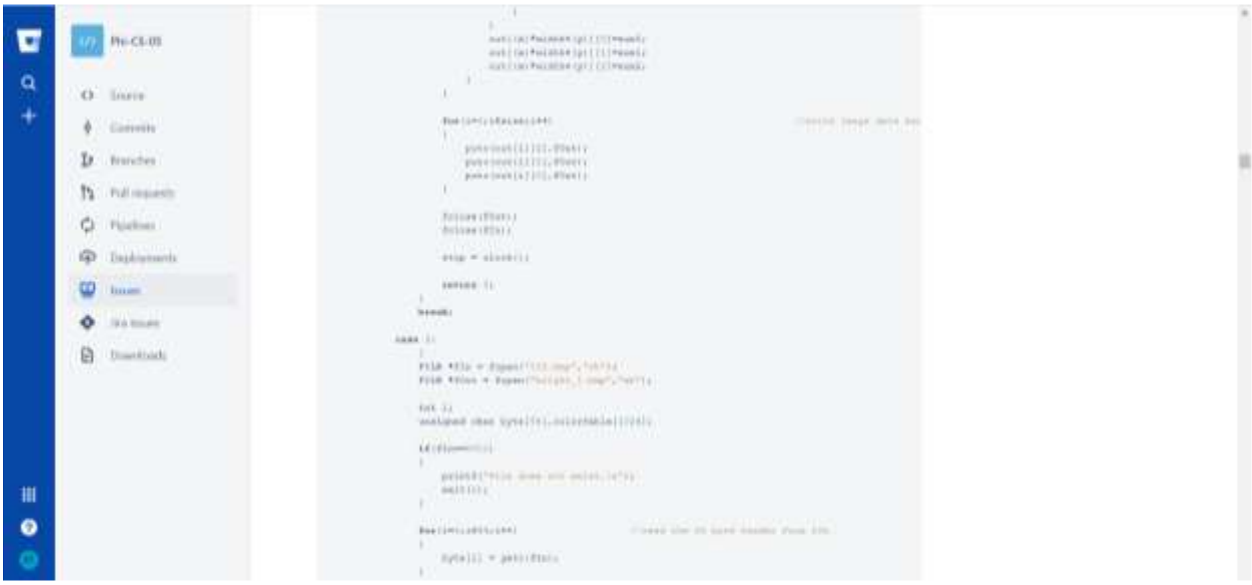
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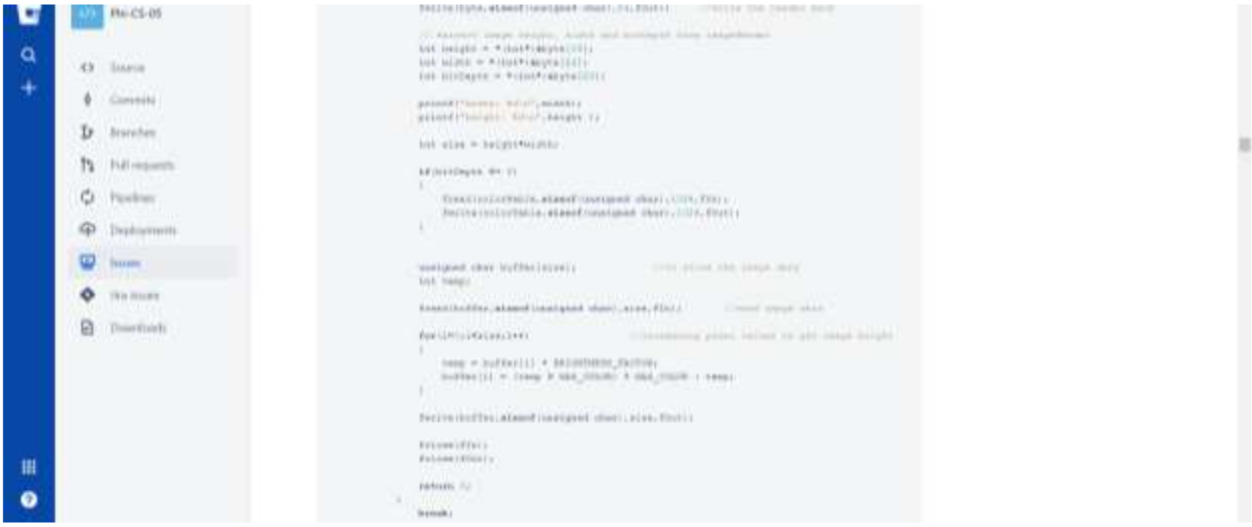
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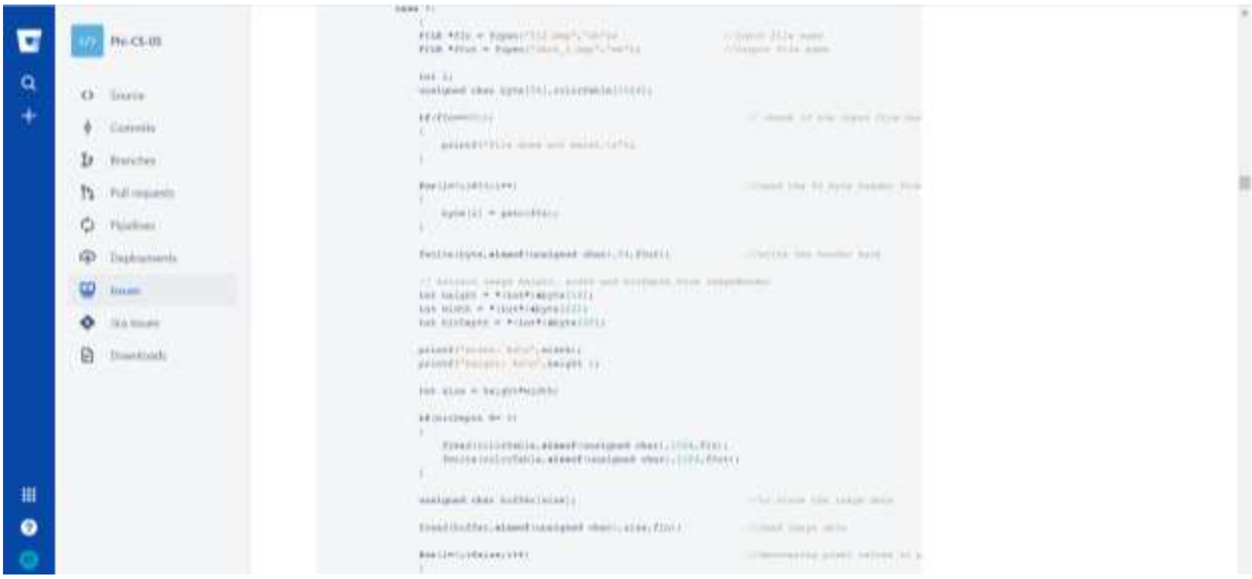
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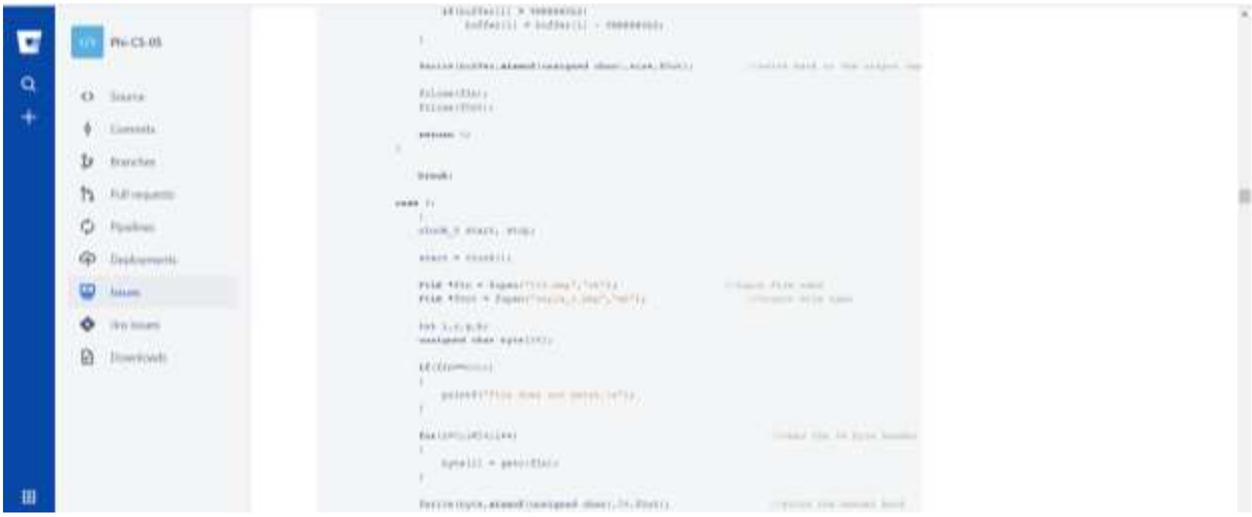
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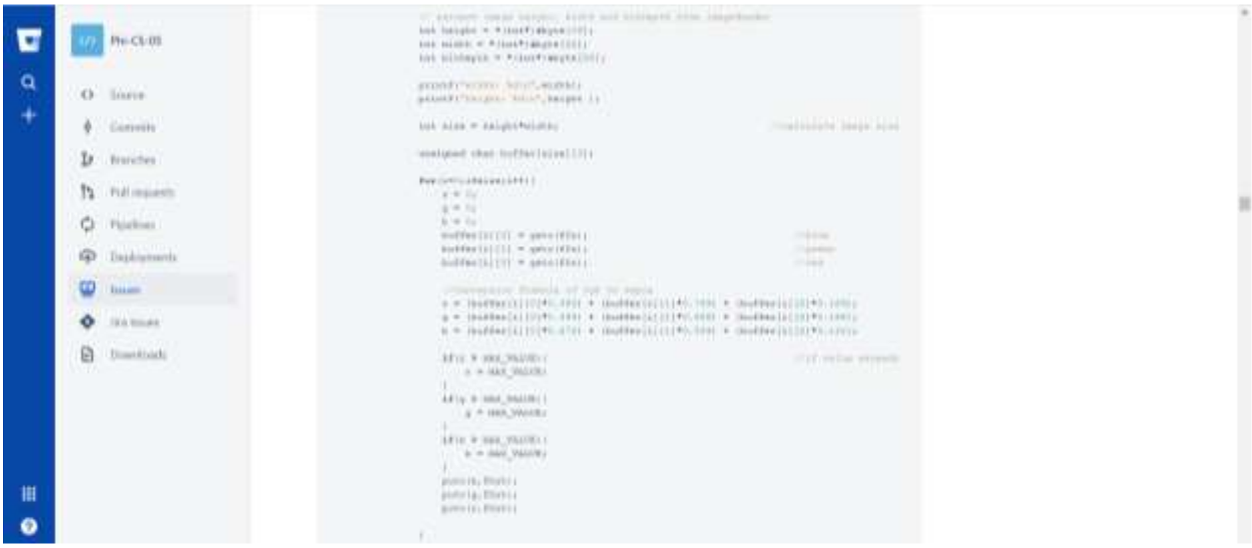
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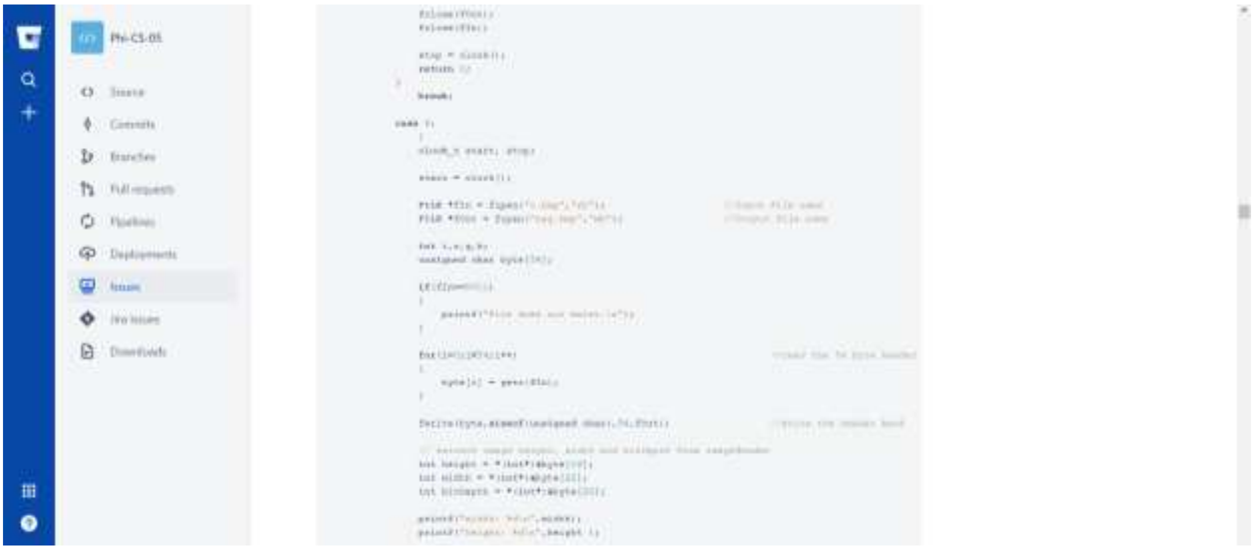
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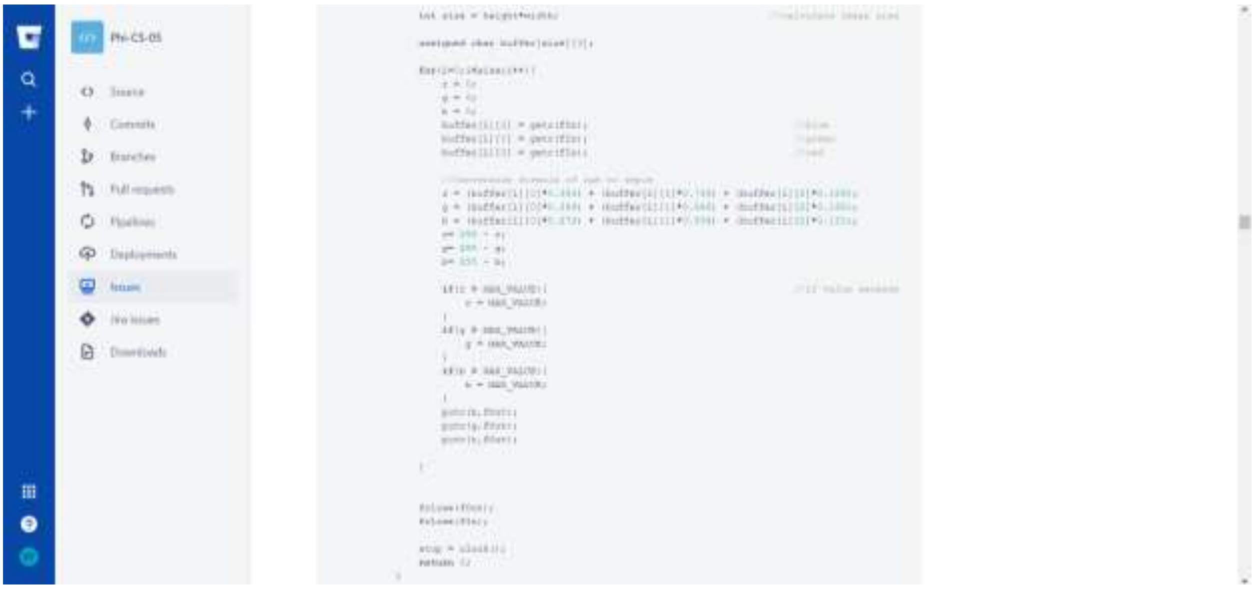
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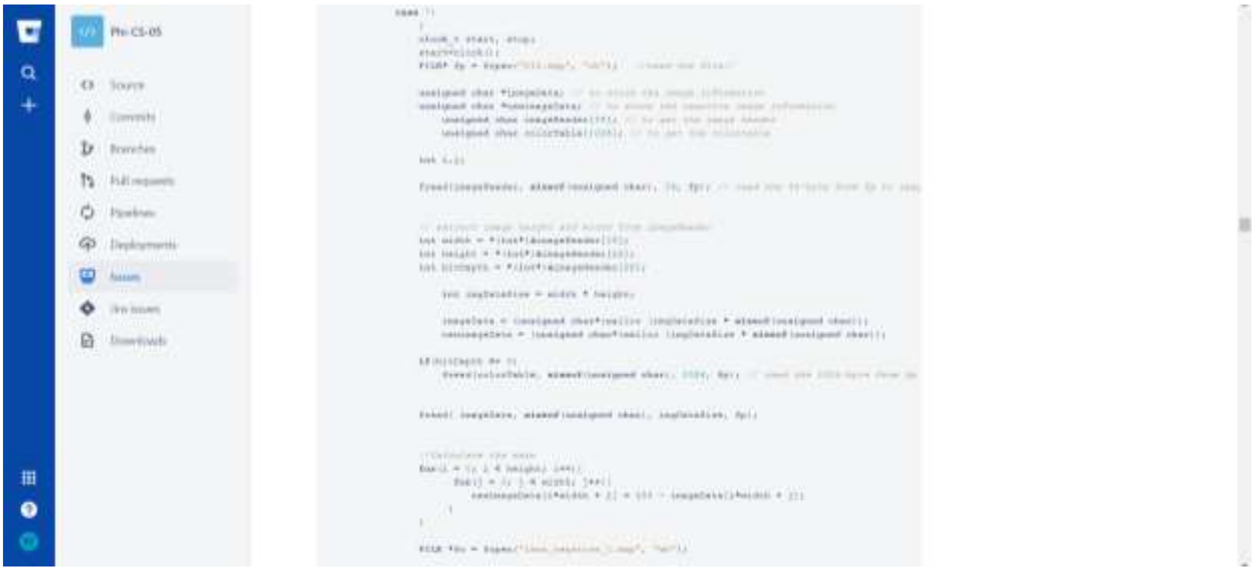
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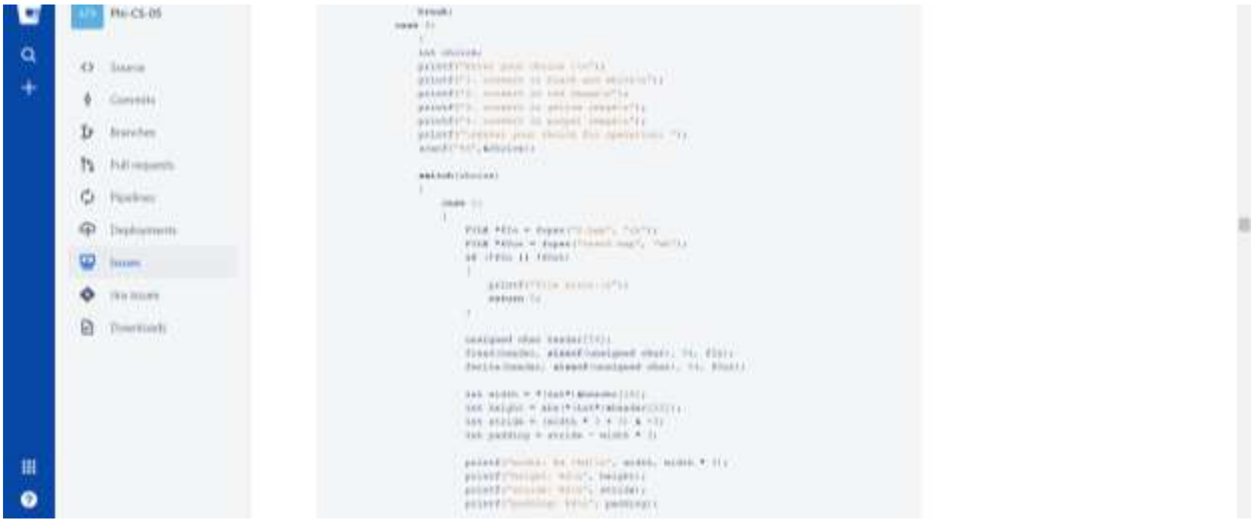
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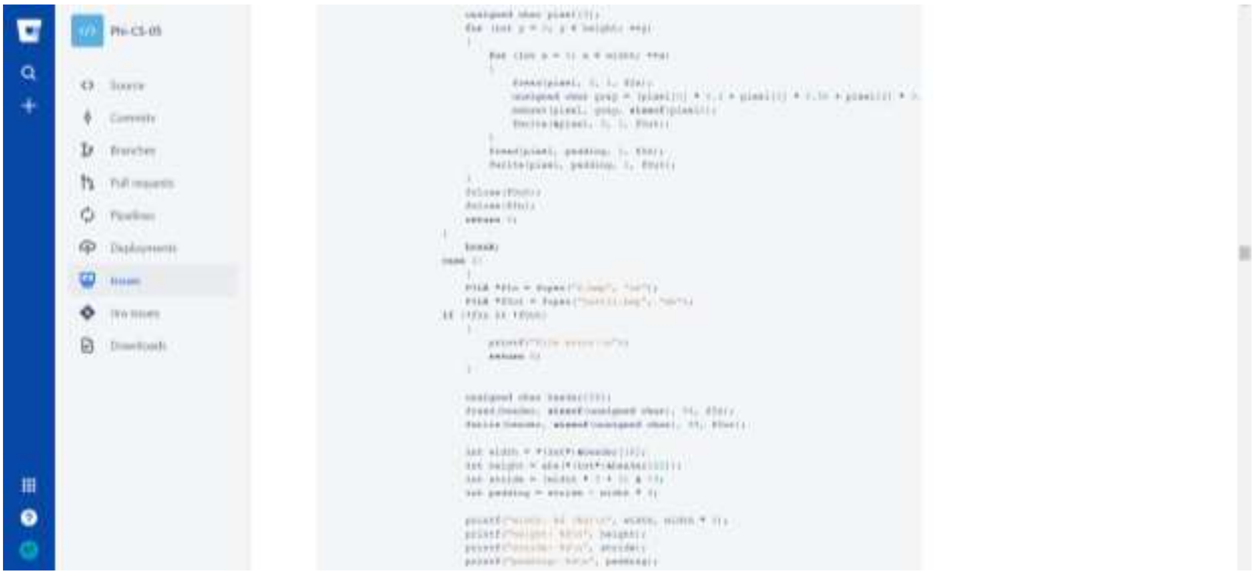
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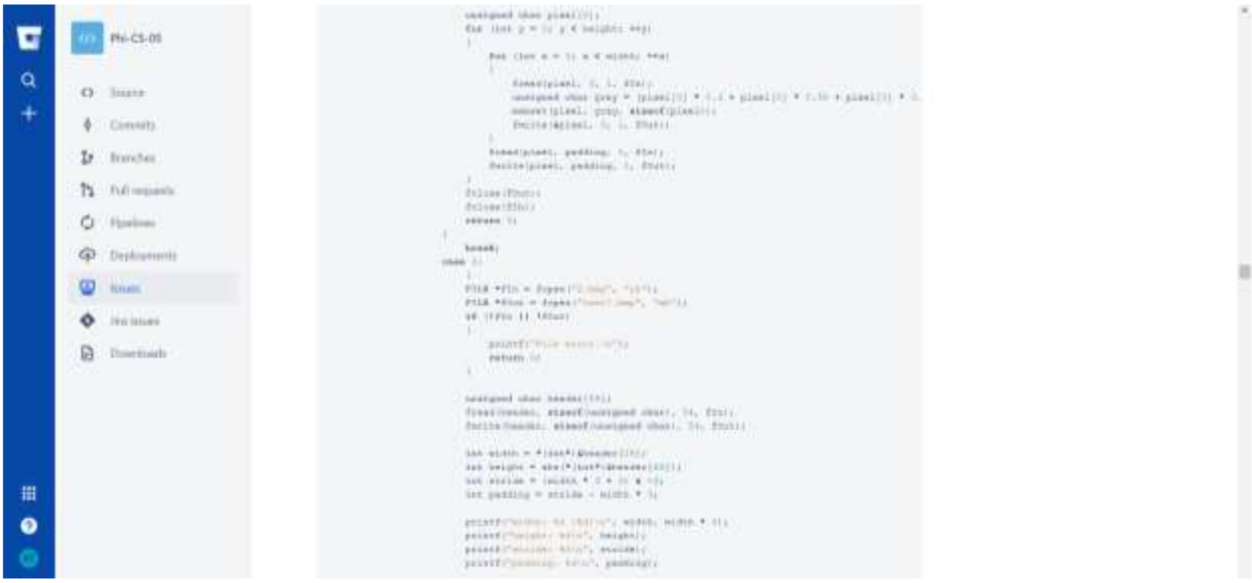
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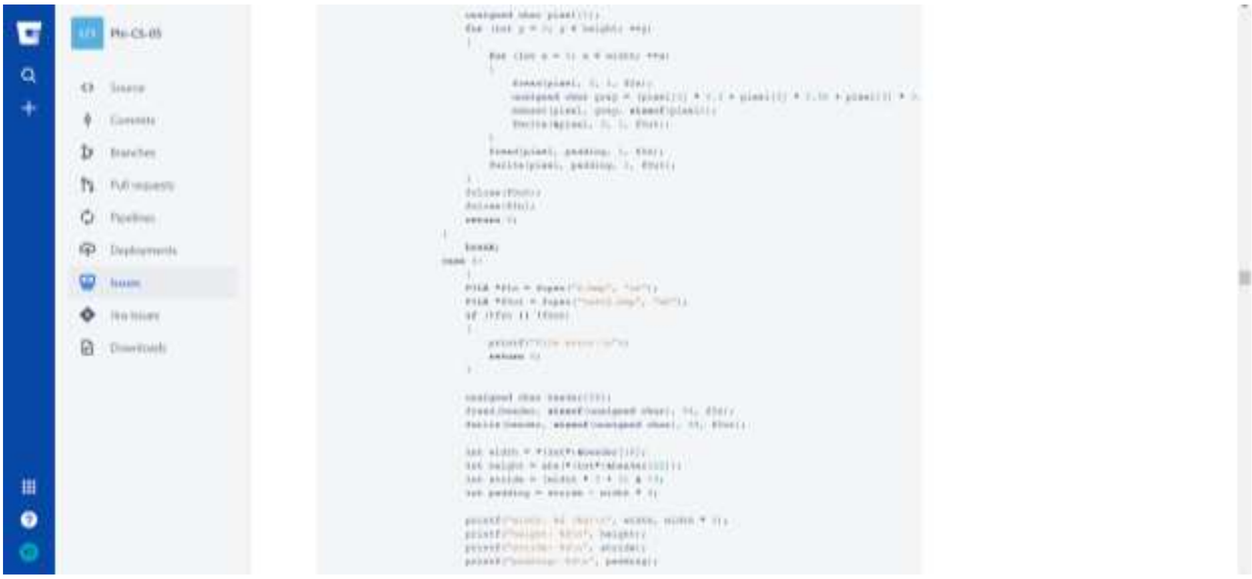
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Terna Epic Admin

@RANDEEP KAHLON Ma'am, please read the comments by Pranay, and take needful action.

@pranay_phi for info only.

@vijaypal yadav @vishwajit gaikwad for info.

Source
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pranay_phi REPORTER

This is precisely is the point, your C implementation makes it very clear that you aren't able to think about the application in proper manner. whereas in Python there is hardly anything to think unless the algorithm is mathematically challenging. For scripting language, I wonder why anyone would even think of plugins.

Anyways, I won't review this project anymore.

@Terna Epic Admin Please inform the guide and do the needful

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Aditya Kumar

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vijaypal yadav

@vishwajit gaikwad kindly do not provide this team Term work as they have not followed the rules and instructions. They should be failed if they are straightaway defaulting and doing whatever they want.

@Aditya Kumar If you cant implement in C then We will also not let you graduate in computer Engineering along with your team members

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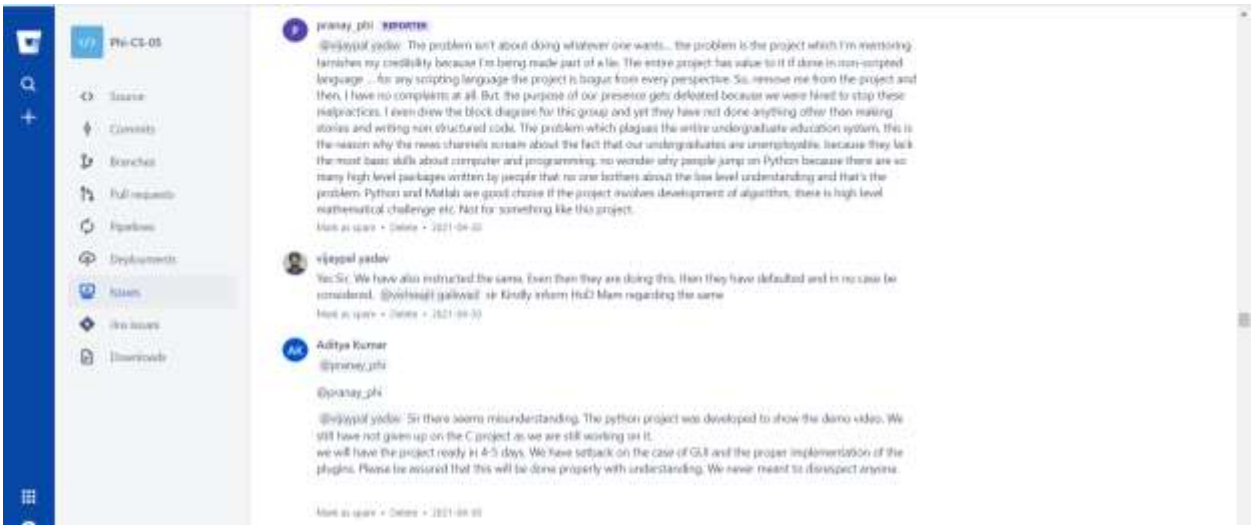

pranay_phi REPORTER

@vijaypal yadav The problem isn't about doing whatever one wants... the problem is the project which I'm mentoring tarnishes my credibility because I'm being made part of a lie. The entire project has value to it if done in non-scripted language ... for any scripting language the project is bogus from every perspective. So, remove me from the project and then, I have no complaints at all. But, the purpose of our presence gets defeated because we were hired to stop these malpractices. I even drew the block diagram for this group and yet they have not done anything other than making stories and writing non structured code. The problem which plagues the entire undergraduate education system, this is the reason why the news channels scream about the fact that our undergraduates are unemployable, because they lack the most basic skills about computer and programming, no wonder why people jump on Python because there are so many high level packages written by people that no one bothers about the low level understanding and that's the problem. Python and Matlab are good choice if the project involves development of algorithm, there is high level mathematical challenge etc. Not for something like this project.

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vijaypal yadav

Yes Sir. We have also instructed the same. Even then they are doing this. then they have defaulted and in no case be considered. @vishwajit gaikwad sir Kindly inform HoD Mam regarding the same

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Aditya Kumar

@pranay_phi

@pranay_phi

@vijaypal yadav Sir there seems misunderstanding. The python project was developed to show the demo video. We still have not given up on the C project as we are still working on it.
we will have the project ready in 4-5 days. We have setback on the case of GUI and the proper implementation of the plugins. Please be assured that this will be done properly with understanding. We never meant to disrespect anyone.

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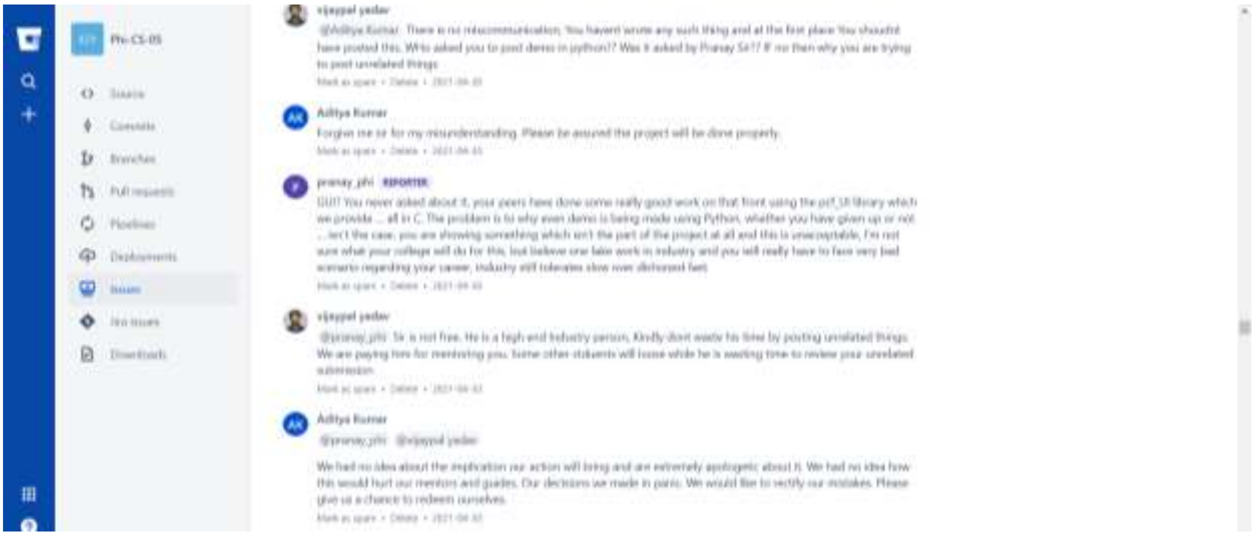

vijaypal yadav

@Aditya Kumar There is no miscommunication. You havent wrote any such thing and at the first place You shouldnt have posted this. Who asked you to post demo in python?? Was it asked by Pranay Sir?? If no then why you are trying to post unrelated things

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Aditya Kumar

Forgive me sir for my misunderstanding. Please be assured the project will be done properly.

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pranay_phi REPORTER

GUI? You never asked about it, your peers have done some really good work on that front using the pcf_UI library which we provide ... all in C. The problem is to why even demo is being made using Python, whether you have given up or not ... isn't the case, you are showing something which isn't the part of the project at all and this is unacceptable, I'm not sure what your college will do for this, but believe one fake work in industry and you will really have to face very bad scenario regarding your career, industry still tolerates slow over dishonest fact.

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vijaypal yadav

@pranay_phi Sir is not free. He is a high end Industry person. Kindly dont waste his time by posting unrelated things. We are paying him for mentoring you. Some other students will loose while he is wasting time to review your unrelated submission.

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Aditya Kumar

@pranay_phi @vijaypal yadav

We had no idea about the implication our action will bring and are extremely apologetic about it. We had no idea how this would hurt our mentors and guides. Our decisions we made in panic. We would like to rectify our mistakes. Please give us a chance to redeem ourselves.

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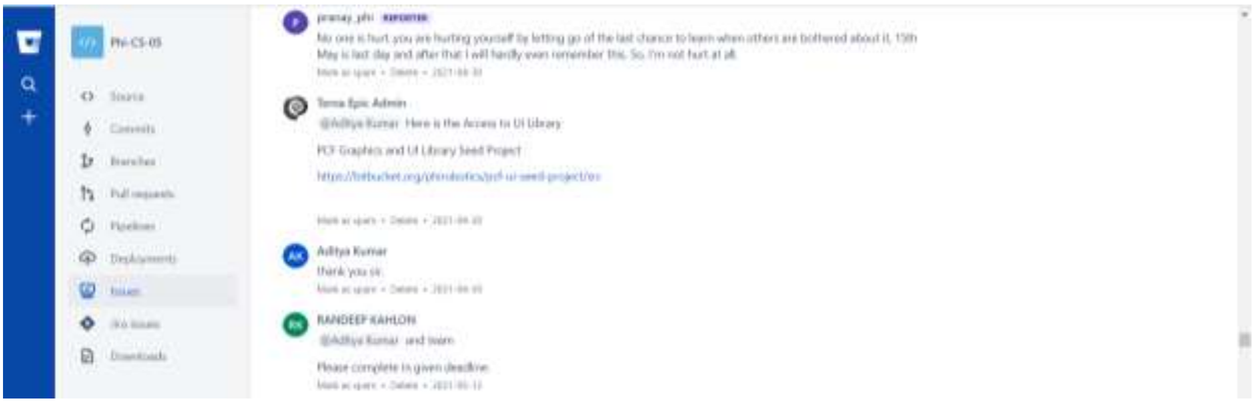

pranay_phi REPORTER

No one is hurt, you are hurting yourself by letting go of the last chance to learn when others are bothered about it. 15th May is last day and after that I will hardly even remember this. So, I'm not hurt at all.

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Terna Epic Admin

@Aditya Kumar Here is the Access to UI Library

PCF Graphics and UI Library Seed Project

https://bitbucket.org/phirobotics/pcf-ui-seed-project/src

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Aditya Kumar

thank you sir.

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RANDEEP KAHLON

@Aditya Kumar and team

Please complete in given deadline.

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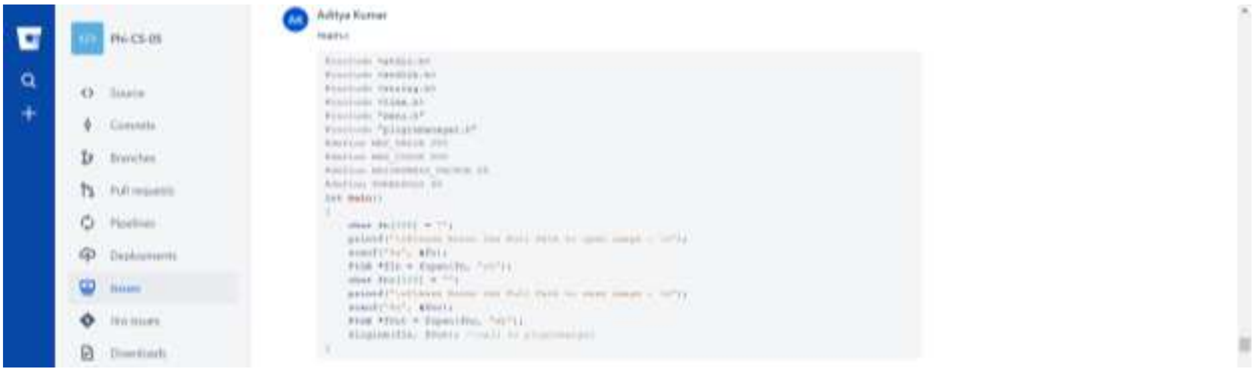
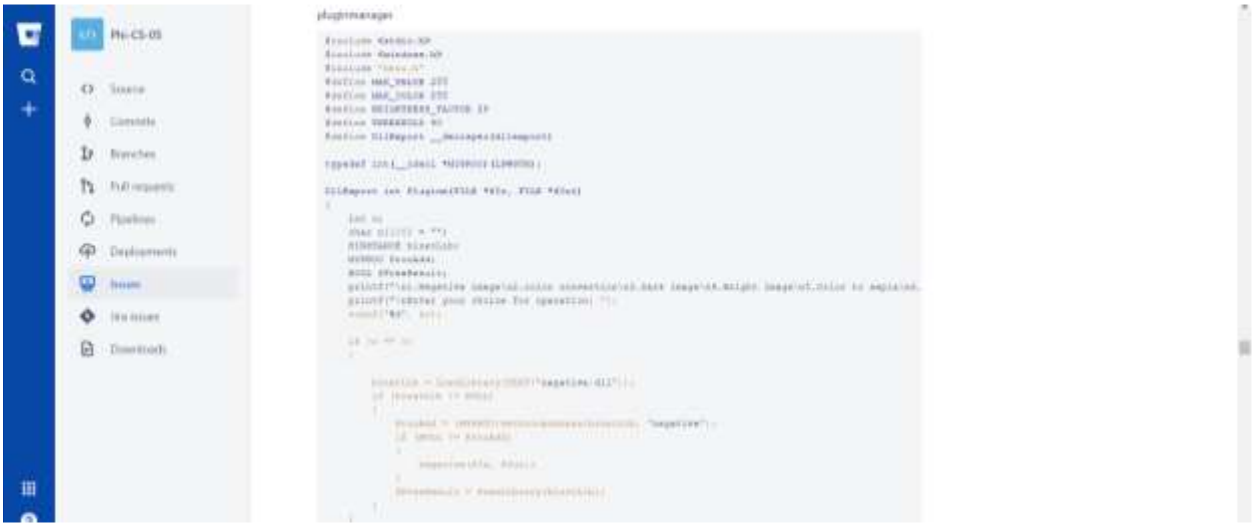


Aditya Kumar

main.c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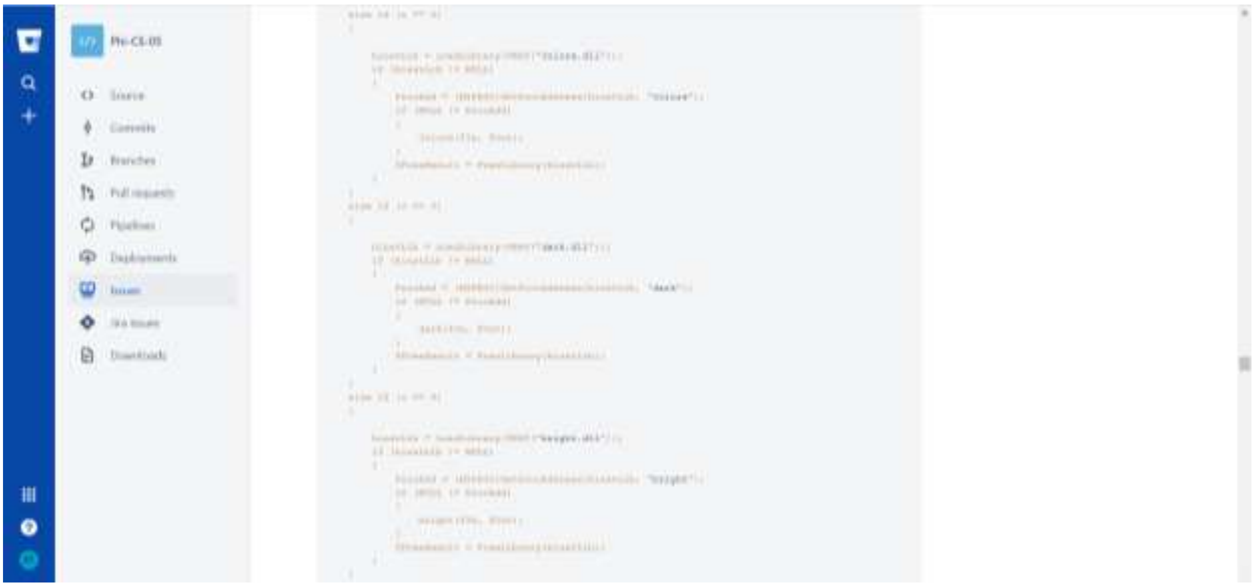
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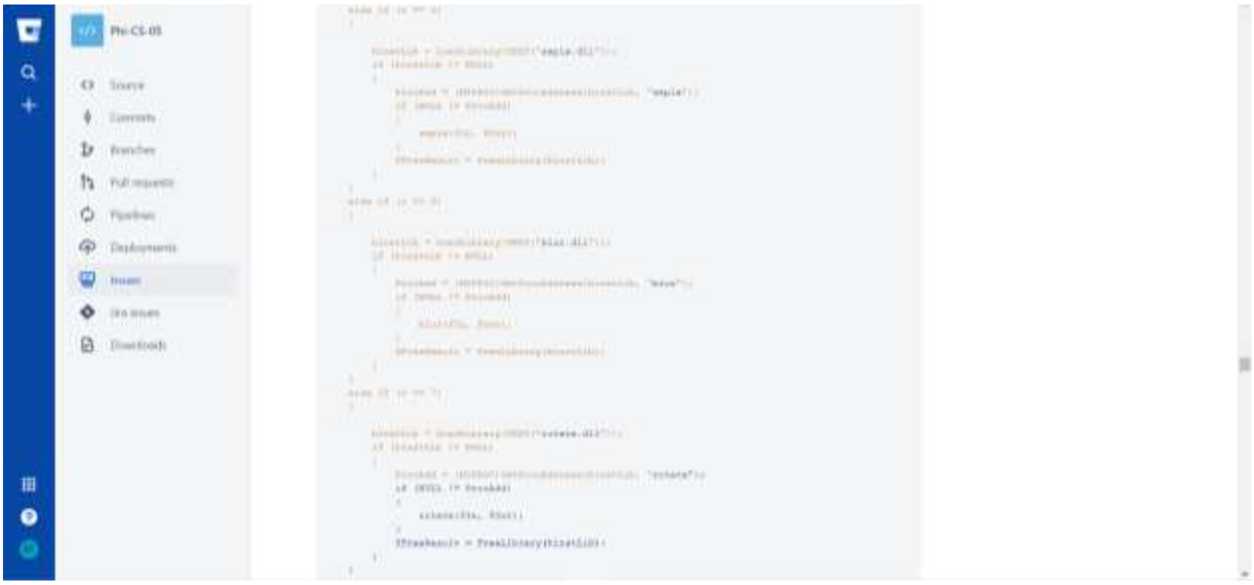
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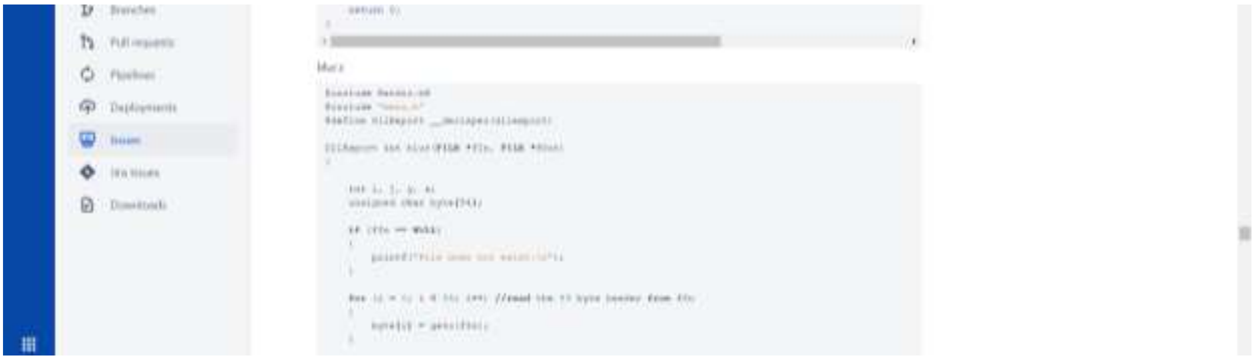
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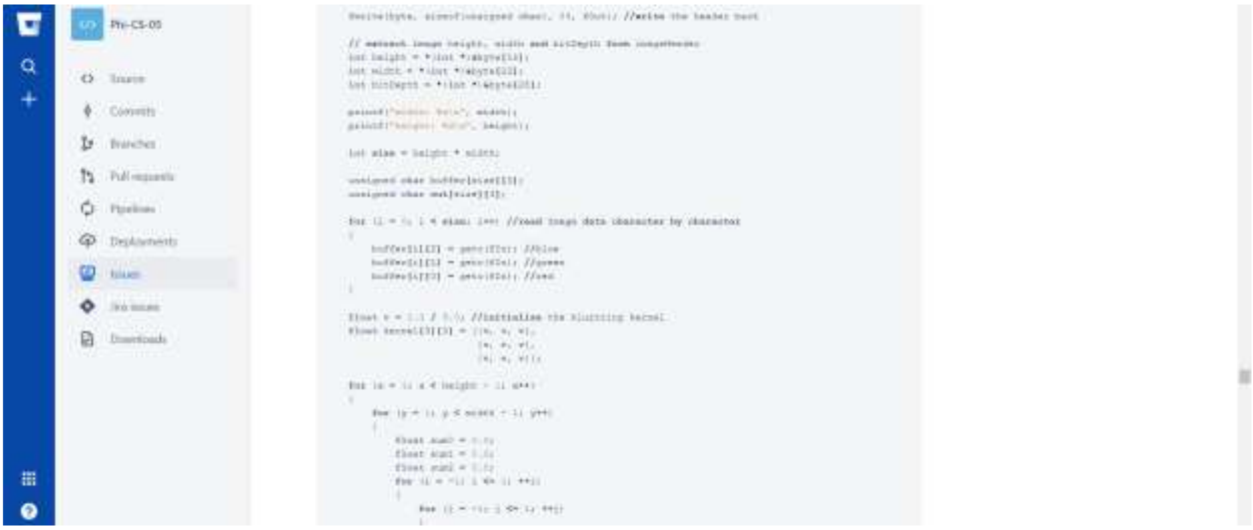
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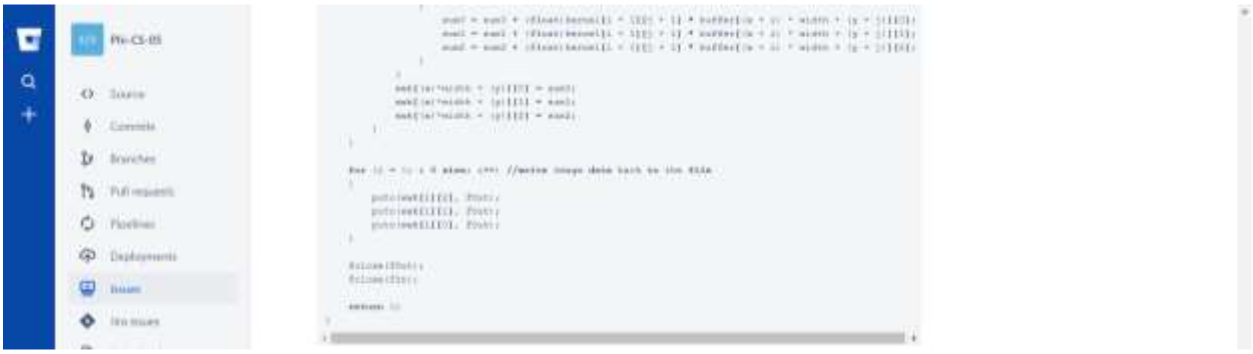
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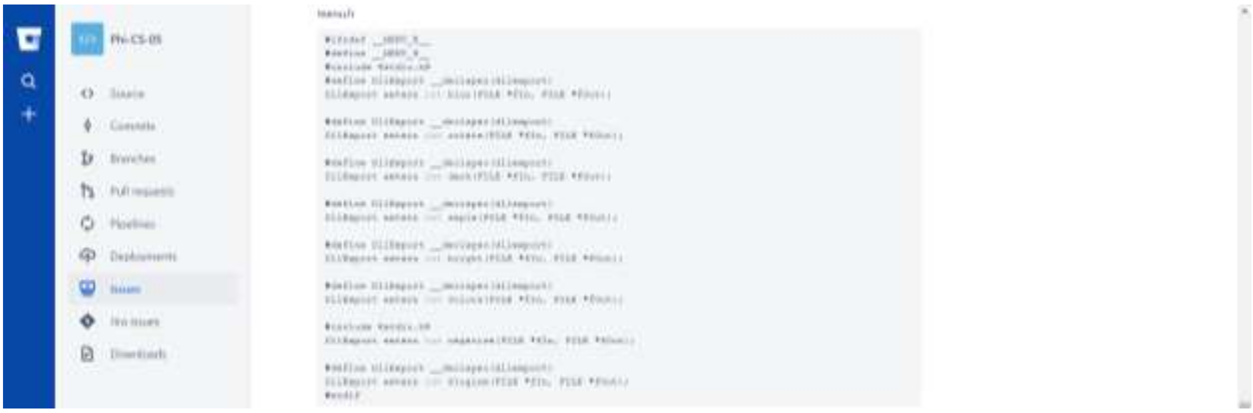
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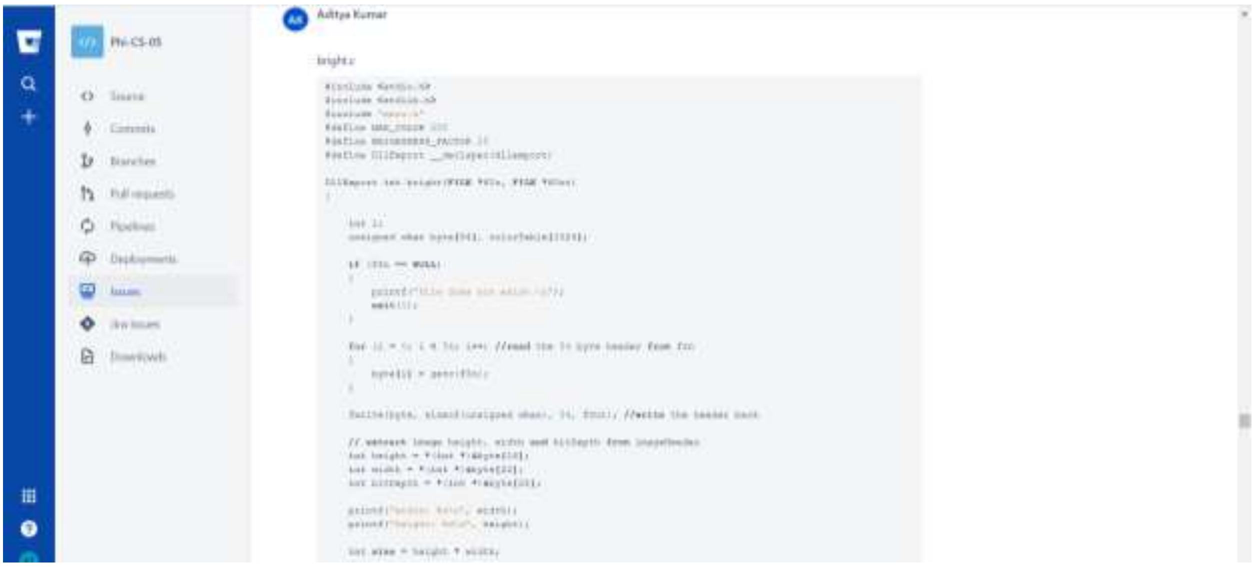
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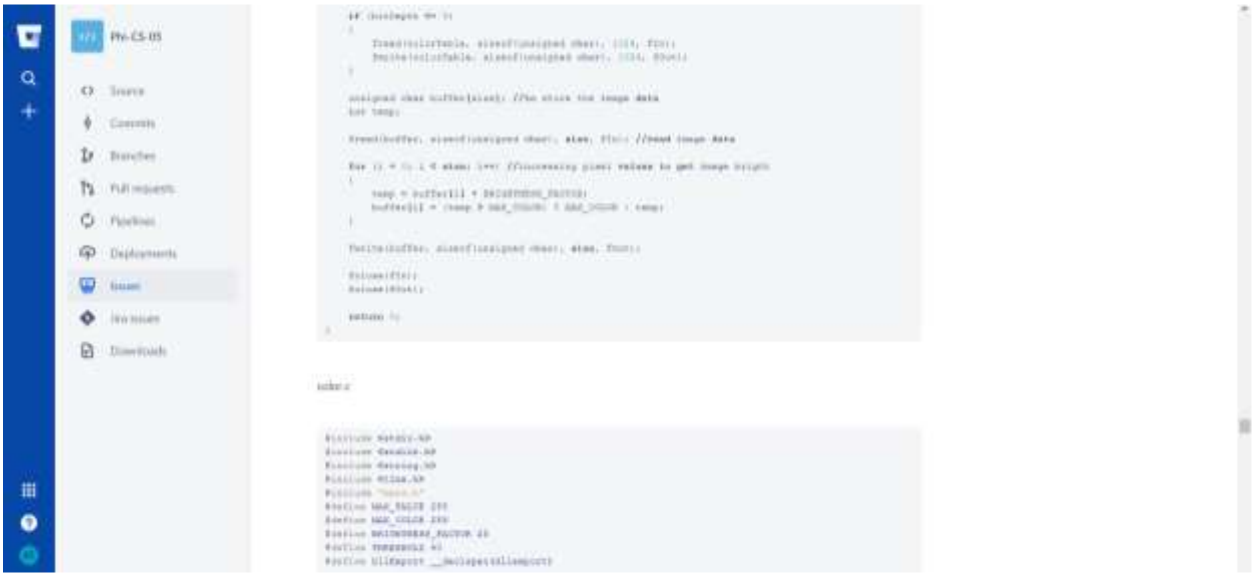
Aditya Kumar
bright.c



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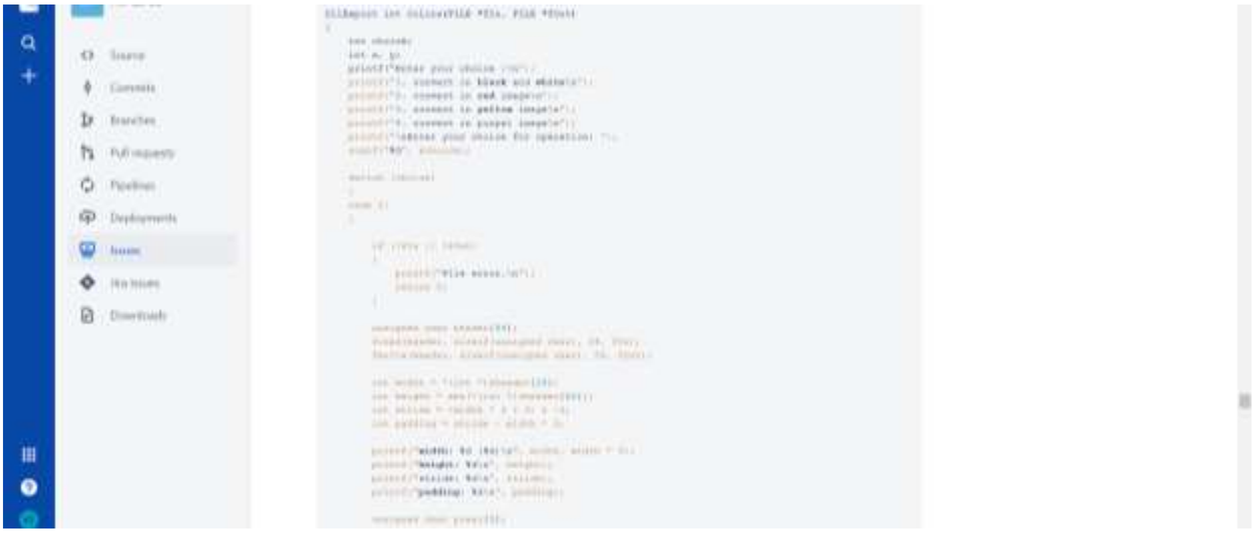

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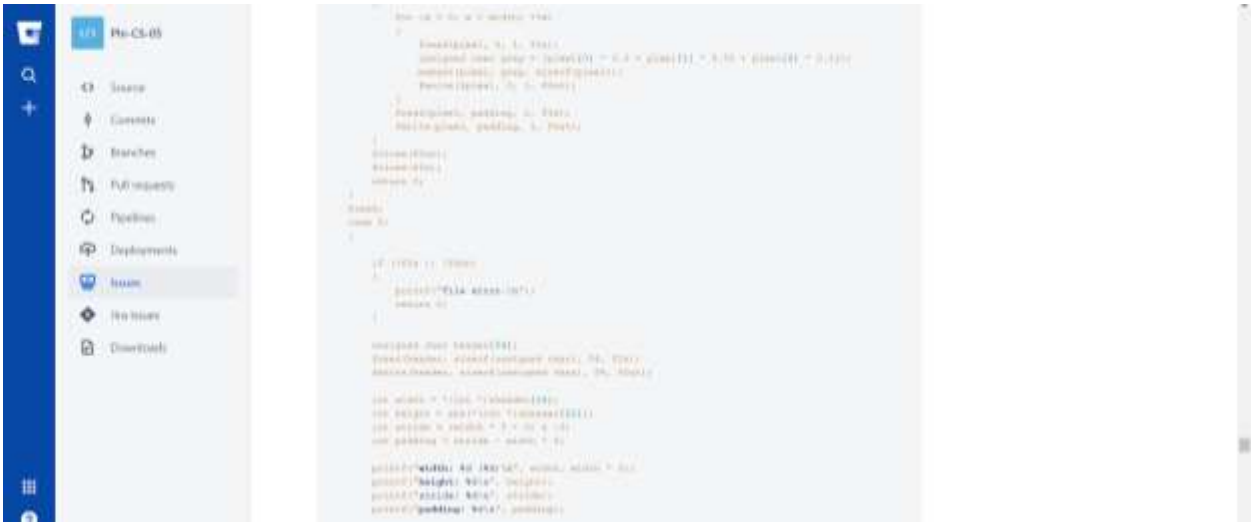

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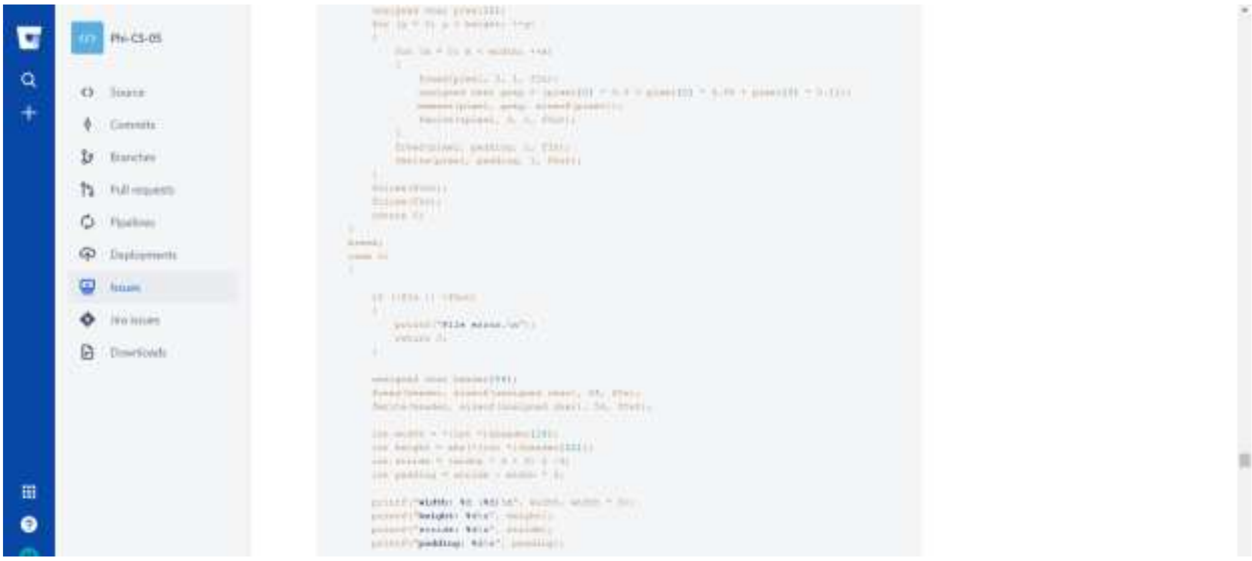
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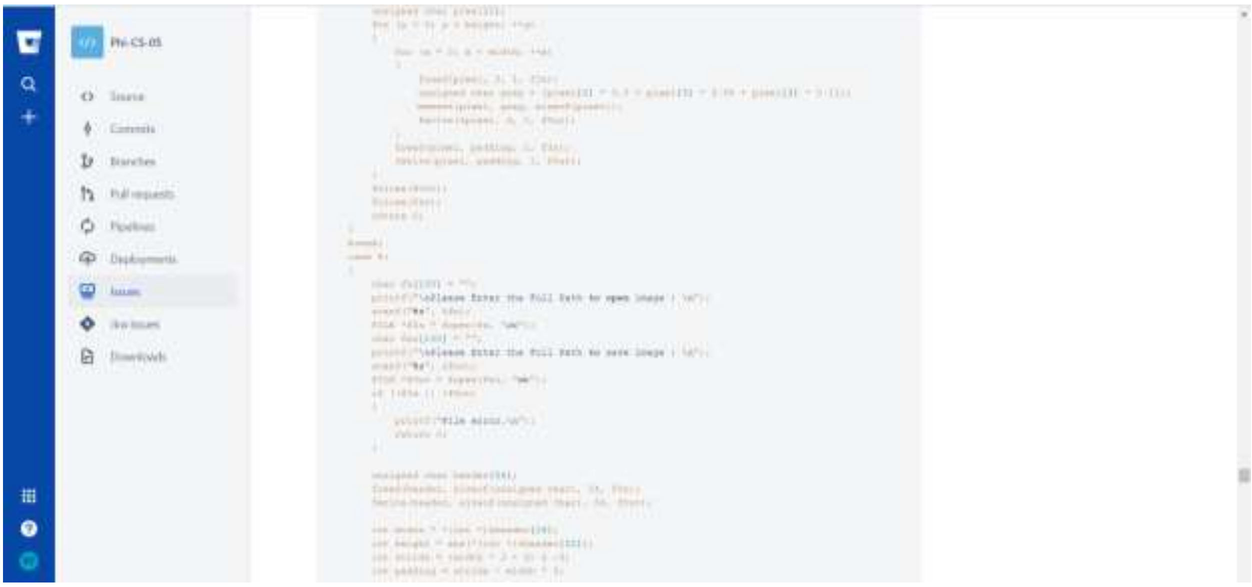
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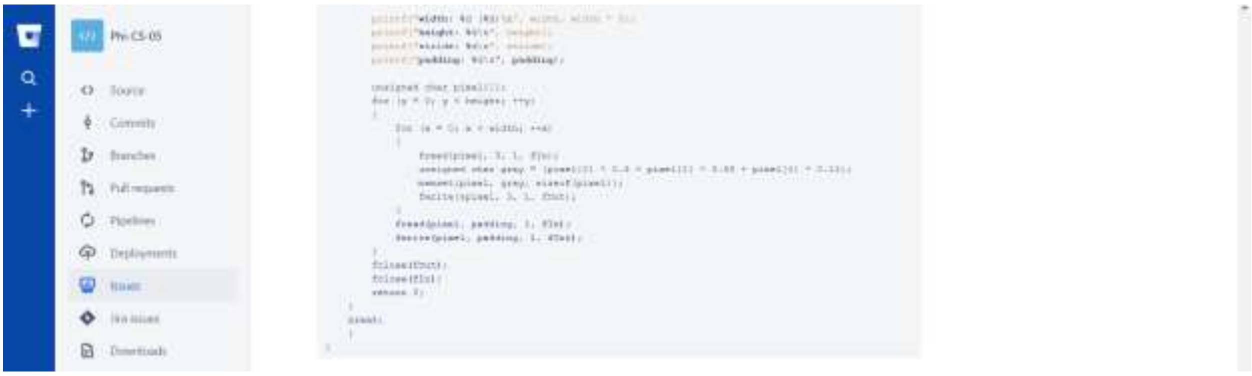
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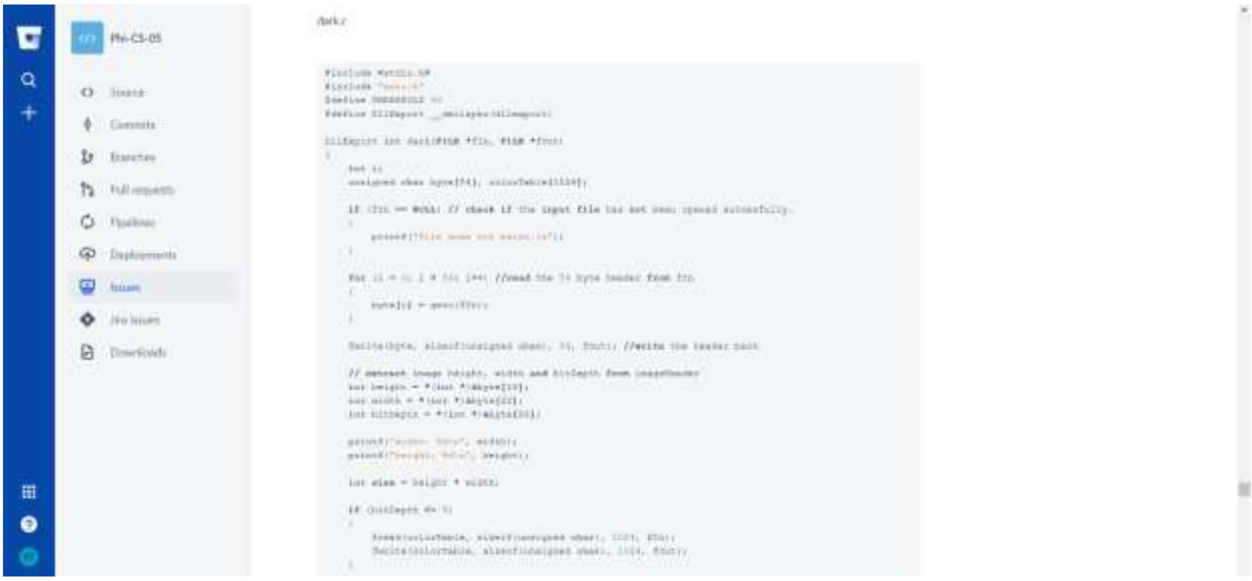
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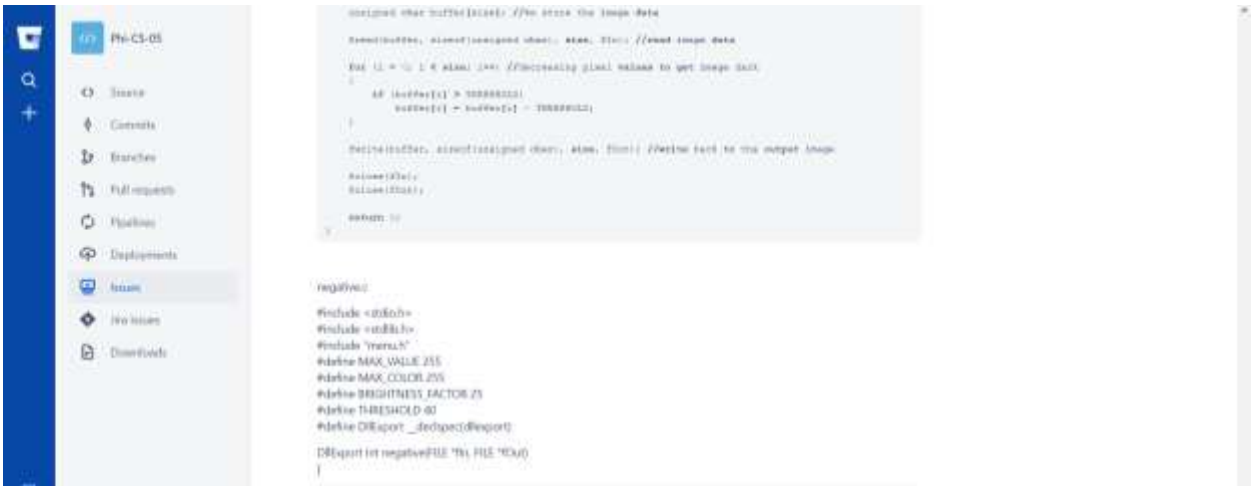
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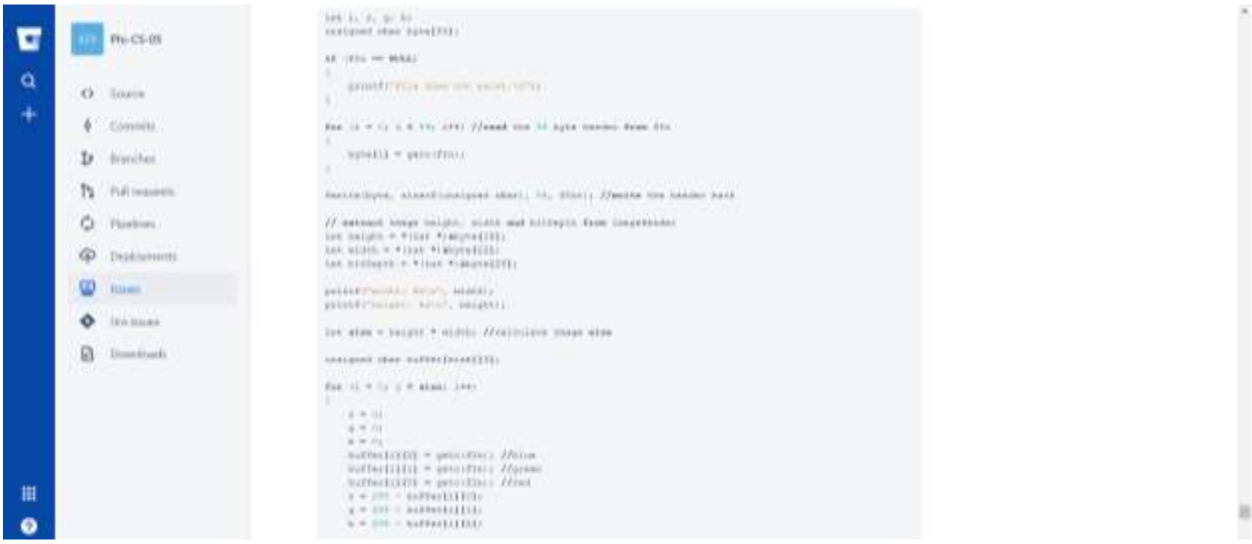
Downloads

negative.c

```
#include <stdio.h>
#include <stdlib.h>
#include "menu.h"
#define MAX_VALUE 255
#define MAX_COLOR 255
#define BRIGHTNESS_FACTOR 25
#define THRESHOLD 40
#define DllExport __declspec(dllexport)

DllExport int negative(FILE *fIn, FILE *fOut)
{
```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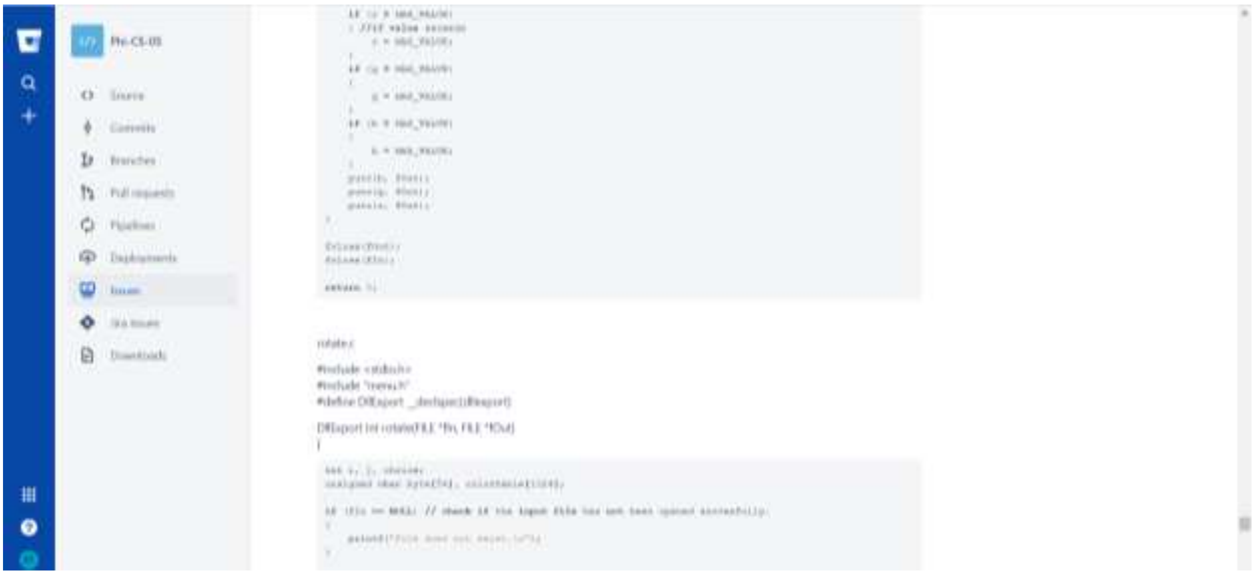
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```
    if (r > MAX_VALUE)
    { //if value exceeds
        r = MAX_VALUE;
    }
    if (g > MAX_VALUE)
    {
        g = MAX_VALUE;
    }
    if (b > MAX_VALUE)
    {
        b = MAX_VALUE;
    }
    putc(b, fOut);
    putc(g, fOut);
    putc(r, fOut);
}

fclose(fOut);
fclose(fIn);

return 0;
```

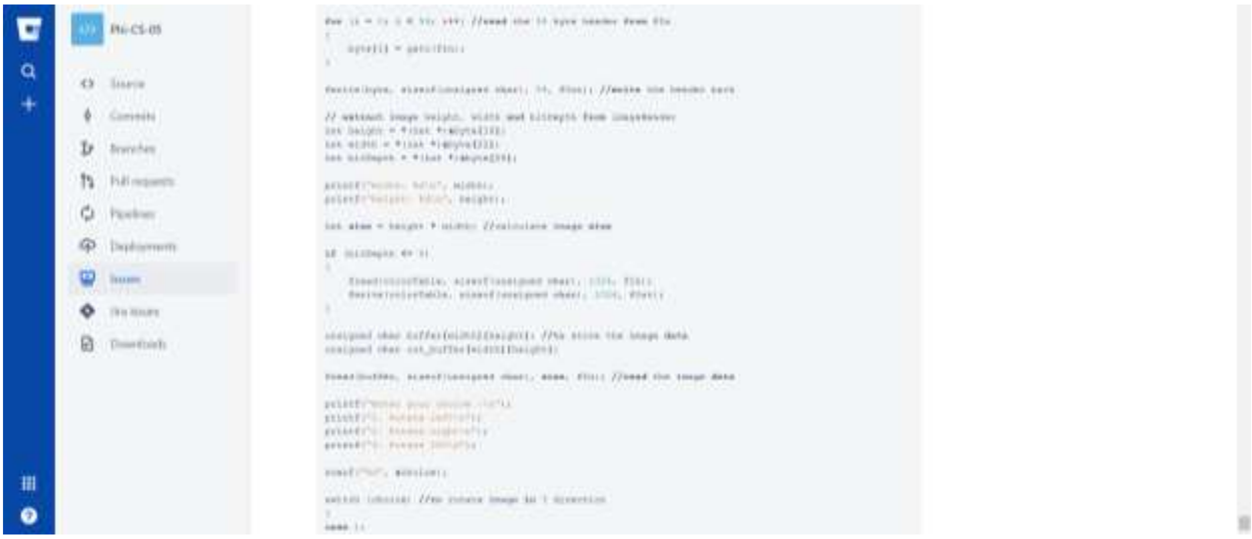
rotate.c

#include <stdio.h>
#include "menu.h"
#define DllExport __declspec(dllexport)

DllExport int rotate(FILE *fIn, FILE *fOut)
{

```
int i, j, choice;
unsigned char byte[54], colorTable[1024];

if (fIn == NULL) // check if the input file has not been opened succesfully.
{
    printf("File does not exist.\n");
}
```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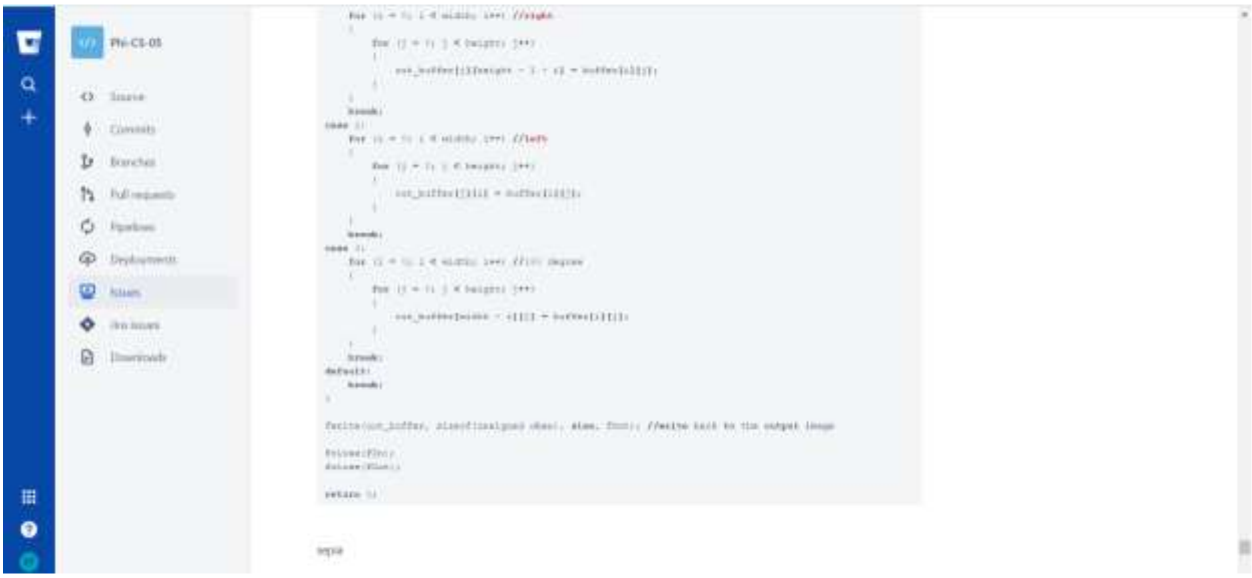
```
for (i = 0; i < 54; i++) //read the 54 byte header from fIn
{
    byte[i] = getc(fIn);
}

fwrite(byte, sizeof(unsigned char), 54, fOut); //write the header back

// extract image height, width and bitDepth from imageHeader
int height = *(int *)&byte[18];
int width = *(int *)&byte[22];
int bitDepth = *(int *)&byte[28];

printf("width: %d\n", width);
printf("height: %d\n", height);

int size = height * width; //calculate image size

if (bitDepth <= 8)
{
    fread(colorTable, sizeof(unsigned char), 1024, fIn);
    fwrite(colorTable, sizeof(unsigned char), 1024, fOut);
}

unsigned char buffer[width][height]; //to store the image data
unsigned char out_buffer[width][height];

fread(buffer, sizeof(unsigned char), size, fIn); //read the image data

printf("Enter your choice :\n");
printf("1. Rotate left\n");
printf("2. Rotate right\n");
printf("3. Rotate 180\n");

scanf("%d", &choice);

switch (choice) //to rotate image in 3 direction
{
case 1:
```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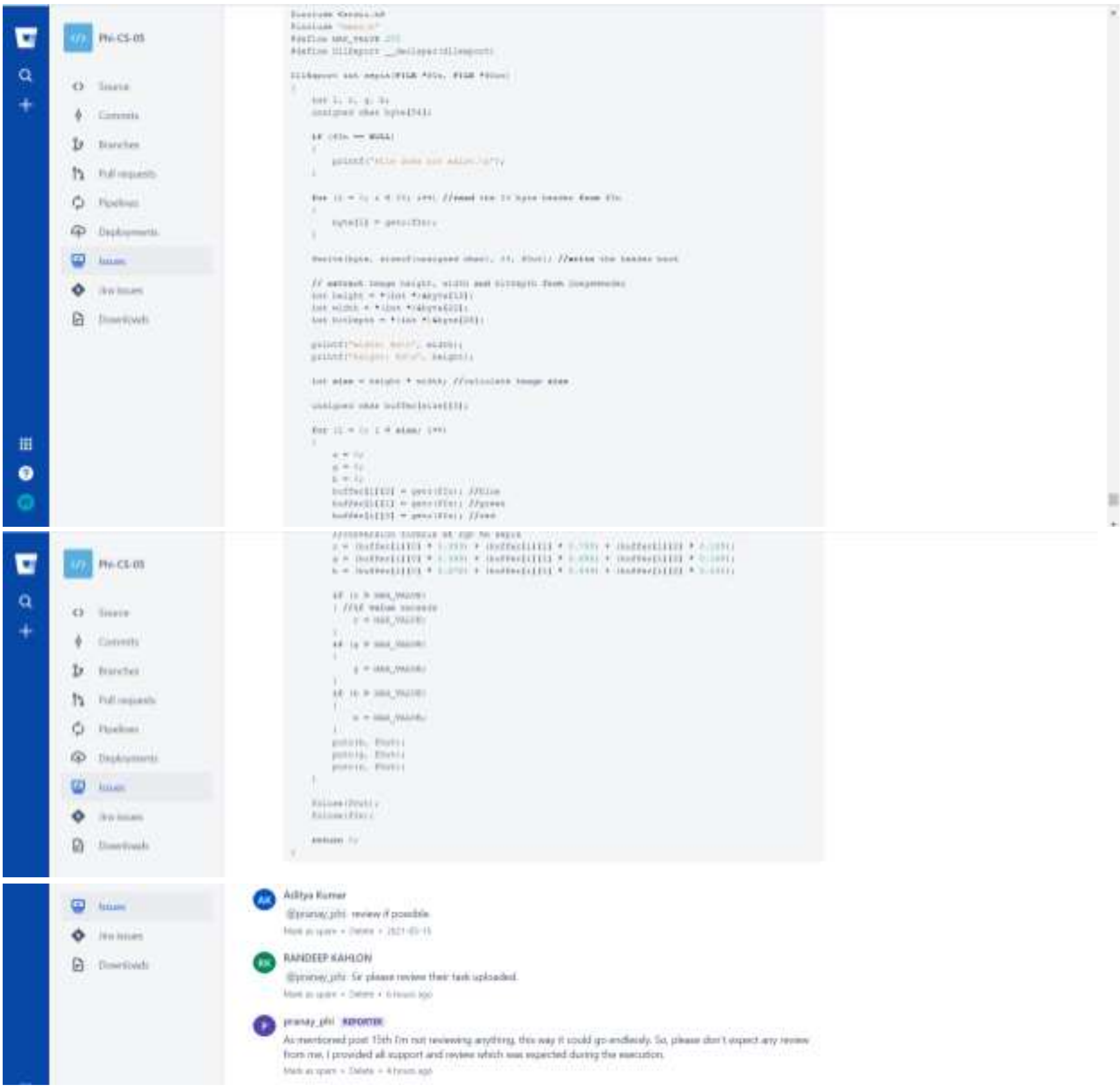
```
    for (i = 0; i < width; i++) //right
    {
        for (j = 0; j < height; j++)
        {
            out_buffer[j][height - 1 - i] = buffer[i][j];
        }
    }
    break;
case 2:
    for (i = 0; i < width; i++) //left
    {
        for (j = 0; j < height; j++)
        {
            out_buffer[j][i] = buffer[i][j];
        }
    }
    break;
case 3:
    for (i = 0; i < width; i++) //180 degree
    {
        for (j = 0; j < height; j++)
        {
            out_buffer[width - i][j] = buffer[i][j];
        }
    }
    break;
default:
    break;
}

fwrite(out_buffer, sizeof(unsigned char), size, fOut); //write back to the output image

fclose(fIn);
fclose(fOut);

return 0;
```

sepia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Aditya Kumar

@pranay_phi review if possible

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RANDEEP KAHLON

@pranay_phi Sir please review their task uploaded.

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pranay_phi REPORTER

As mentioned post 15th I'm not reviewing anything, this way it could go endlessly. So, please don't expect any review from me, I provided all support and review which was expected during the execution.

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