

EECS 4313E Assignment 1

Bugs and Bug Reports

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1. Bug Report 1

Bug Report Title: Does not highlight Red Color

Name Of Reporter: Pranav Prashar

Day Reported: October 14th 2021 5:35 PM EST

Software Version: Borg 1.9.04

Report Type: Design Issue/Coding Error

Configuration: Windows 10 Education 18363.1801 Lenovo P51

Reproducibility: Yes

Component Name: Day, Week, Month and Year Views of the calendar Highlighting

Severity: **Minor**, this doesn't affect the main usability

Priority: It should be fixed as it can be confusing for the user

Problem Summary: The problem is that when users are hovering over the Day in the Month view, the color should highlight Red. But instead users are shown a Black bar

Problem Description: The problem is that the system does not show a red bar. When the user is to hover over the date in Month View the color of the bar should be Red, but this bug shows it as Black. According to REQ 3.1.2 Step 4 : *“Alternatively, when in month view, place the mouse over a day's number (a red bar will appear) and click. The day view of the specific day will appear”*

The requirement states that when the user is to hover over the day's number a red bar should appear. But no red bar appears

To Recreate this bug, Please Follow These Steps:

- Run the Application
- Select Action in the top Left
- Click “Month View”
- Month View will Open Up
- Hover over the date in the Month View calendar
- A Red bar *should* Appear, but the bar actually comes up as Black

New Or Old bug : New

2. Bug Report 2

Bug Report Title: No name memo is not created

Name Of Reporter: Vamsi Lingamaneni

Day Reported: October 14th 2021 6:12 PM EST

Software Version: Borg 1.9.04

Report Type: Design Issue/Coding Error Bug

Configuration: Windows 10 Education 18363.1801 Lenovo Thinkpad T540P

Reproducibility: Yes can be reproduced, steps are below.

Component Name: Memos

Severity: Minor, this doesn't affect general usability, although it doesn't fulfil the requirements provided in the SRS for the BorgZ program. In general, it is rare for a user to create a memo with no name, which is why it has minor severity.

Priority: This doesn't need to take precedence over other bug fixes, as it is rare for any user to create a memo with no name. However, it is good to be fixed as it will fulfill the requirements provided in the SRS for the Borg program.

Problem Summary: A memo with no name can't be created, that is the problem.

Problem Description: A memo with no name can't be created, however according to 3.7.3, REQ-19: "*A memo with no name can be created and is treated like all the others (i.e. the empty name is treated as a unique one and no other memos without a name can be created)*" This is what was stated in the SRS of the Borg program, but currently the Borg program doesn't let the user create memos with no name for the memo.

To reproduce this bug, please follow these steps:

- Open up the Borg Application
- Click "Action" on the file menu in top-left corner
- Select "Memos" from the Action file menu, it is between "Tasks" and "Checklists"
- Click on the first button located at the bottom that says "New Memo" (this is to create a new memo)
- A pop-up will be displayed after you click on "New Memo" button, that says "Please enter the name for the new memo"
- In that pop-up, please don't enter anything in the text box and click on the first button at the bottom of the pop-up that says "OK"
- Once the button "OK" is selected, according to the SRS a new memo should be created and treated like others, but under the left column "Memo name" there is no memo.

New Or Old bug : Old bug

3. Bug Report 3

Bug Report Title: Korean characters show up as boxes in memos

Name Of Reporter: Muhammad Khan

Day Reported: October 14th, 2021 9:56 PM EST

Software Version: Borg 1.9.04

Report Type: Design Issue

Configuration: Windows 10 Home 19042.1237 Lenovo Yoga 6

Reproducibility: Yes

Component Name: Memos

Severity: Medium, this bug affects anyone that is trying to create memos in the Korean language. It is medium severity because although it affects some users, the majority of users will not be affected by this bug. Still, the bug renders memos unusable for people that want to type in Korean.

Priority: This bug should be fixed as it alienates a group of users from using the full functionality of the program.

Problem Summary: Users cannot create memos in the Korean language

Problem Description: The problem is that the user cannot create a memo in the Korean language as it just shows boxes when you type in Korean in the memo title and memo text box. According to 3.7.1 Description: *Memos are plain text notes that can be created and saved by the user and are equipped with the ability to be encrypted as well as exported to files that can be opened and edited by almost any word processing application.* It clearly states that memos are plain text notes that can be created by the user. However, typing in Korean will just show boxes on the memo title and the memo itself as well. So, the user is not able to create a memo in plain text in a different language; the language being Korean.

To reproduce this bug, please follow these steps:

- Open up the Borg Application
- Click “Action” on the file menu in top-left corner
- Select “Memos” from the Action file menu
- Click on “New Memo”
- A pop-up box that prompts you to input the name of the memo will show up after you click on “New Memo”
- Input any Korean character and click “OK”
- Now click on the big white text box that appears in the new memo that you created
- Input any Korean character inside the memo text box
- As you can see, both the memo title and memo text box only show boxes instead of Korean characters

New Or Old bug : New bug

4. Feature Enhancement

Feature Title: Add Search Bar ToDo List

Name Of Reporter: Pranav Prashar

Day Reported: October 14th 2021 7:30 PM EST

Software Version: Borg 1.9.04

Report Type: Feature Enhancement

Configuration: Windows 10 Education 18363.1801 Lenovo P51

Feature Description:

In the todolist section, although the user is able to see all the todo tasks at once, adding a search bar could help narrow down the tasks based on the keywords or timing. Many users do not delete their tasks even after completing it as they would still like a list of the tasks they have completed. So, the search bar would allow a user to search if there are many tasks which have to be done and it is easy to search and sift through them

3.1 Bug Reports in Mozilla Firefox

A problem with the title is that it is quite vague and confusing. The user has to read the whole thread of bug reports multiple times before understanding the full problem. Another problem is multiple requests had to be made to get more information, for example, the BuildId of the software was missing. This is vital information for other developers to fully understand the problem, so they can test and figure out what the bug is and how to fix it.

When the bug was first reported, there was no list of Hardware that was used. This is important because the testers or developers can figure out if this is a hardware-specific problem or if the problem is universal. Only after people asked for the hardware information as well as screenshots, the original poster “Dennis Birkholz” provide this information

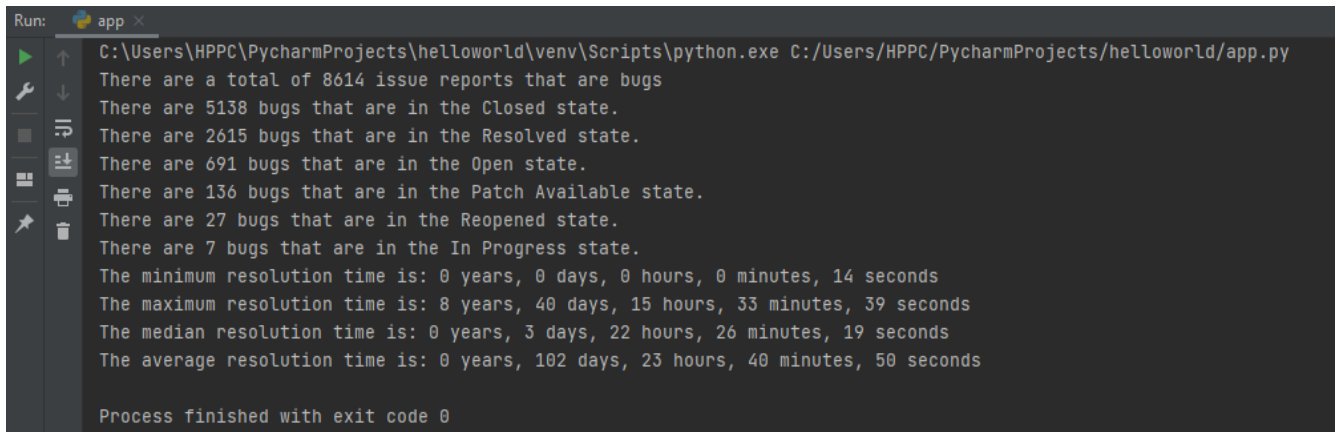
In addition, the steps are not very descriptive, for example, step 3 just states “ Look at the recipients-list”. They should include what to look for, such as, some recipients are missing and that the first recipient's email is repeated.

The original poster did not give any information using a one-line statement, this would allow for people to read the one-line statement; as well as, figure out if they are willing to work on this problem. The statement could be written as “When sending emails with multiple recipients, Using this Build number 112785. The first recipient of the email is repeated for every other recipient's email address as well.”

3.2 Issue Reports in HBase

1. There are a total of 8614 issue reports that are bugs
2. States:
 - There are 5138 bugs that are in the **closed** state
 - There are 2615 bugs that are in the **resolved** state
 - There are 691 bugs that are in the **open** state
 - There are 136 bugs that are in the **patch available** state
 - There are 27 bugs that are in the **reopened** state
 - There are 7 bugs that are in the **in progress** state
3. All results were obtained using a python script that has also been submitted along with the PDF file.
 - a. The **minimum** resolution time for resolved and closed bugs is 14 seconds
 - b. The **maximum** resolution time for resolved and closed bugs is 8 years, 40 days, 15 hours, 33 minutes and 39 seconds
 - c. The **median** resolution time for resolved and closed bugs is 3 days, 22 hours, 26 minutes and 19 seconds
 - d. The **average** resolution time for resolved and closed bugs is 102 days, 23 hours, 40 minutes and 50 seconds

Screenshot of the output of python script for Question 3.2.3:

A screenshot of a terminal window showing the output of a Python script. The window title is "Run: app". The output text is as follows:

```
C:\Users\HPPC\PycharmProjects\helloworld\venv\Scripts\python.exe C:/Users/HPPC/PycharmProjects/helloworld/app.py
There are a total of 8614 issue reports that are bugs
There are 5138 bugs that are in the Closed state.
There are 2615 bugs that are in the Resolved state.
There are 691 bugs that are in the Open state.
There are 136 bugs that are in the Patch Available state.
There are 27 bugs that are in the Reopened state.
There are 7 bugs that are in the In Progress state.
The minimum resolution time is: 0 years, 0 days, 0 hours, 0 minutes, 14 seconds
The maximum resolution time is: 8 years, 40 days, 15 hours, 33 minutes, 39 seconds
The median resolution time is: 0 years, 3 days, 22 hours, 26 minutes, 19 seconds
The average resolution time is: 0 years, 102 days, 23 hours, 40 minutes, 50 seconds

Process finished with exit code 0
```

Submitted python scripts with this document.