City University of Hong Kong Department of Computer Science

CS3343 Software Engineering Practice

2021/22 Semester A

Hong Kong-Shenzhen Metro Route Planning System in Greater Bay Area

Bug Report



Project Group 6

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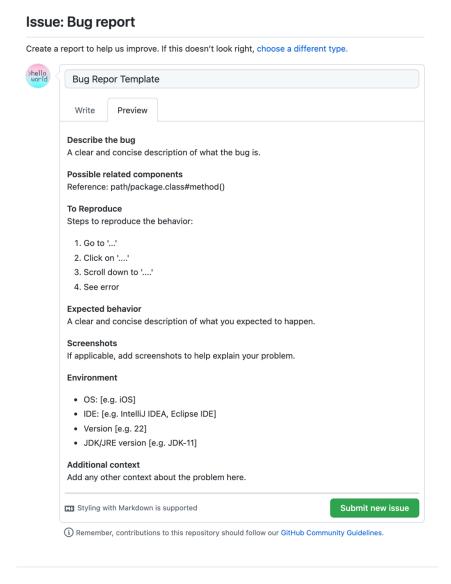
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1 **OVERVIEW**

We use GitHub Issues to manage our bugs. We choose this mainly because it can interact with commits in our GitHub repository, and is helpful for team members to communicate.

We have created a template for bug reporters to submit their bugs. Inserting pictures is allowed. Once a bug is reported, all members can comment on it. After a bug is fixed, we can close it manually or automatically close it in a commit.

2 TEMPLATE



3 EXPLANATION

Here is the detailed explanation of each part of our bug report.

3.1 Describe the Bug

The reporter needs to give a general description of the bug. We recommend it to be clear and concise.

3.2 Possible Related Components

The reporter is expected to predict where the bug might be in our project structure. This is optional because sometimes it is difficult to predict, and sometimes the reporter may not be responsible for the area where the bug occurs.

e.g., src/metroSystem.Database

3.3 To Reproduce

The reporter must give detailed steps on how to reproduce the bug, as this is important for the developer to locate the bug.

3.4 Expected Behavior

The reporter can explain what the program will behave if no bug is present or what is their "ideal" behavior. This is optional.

e.g., The station name should be "Jordan" instead of "Jordon".

3.5 Screenshots

The reporter can paste screenshots of the bug here. This is also optional but recommended.

3.6 Environment

The reporter needs to state the environment where he/she finds the bug. Specially, the OS, IDE, Version, JDK version.

e.g., macOS Monterey 12.0.1, IDEA 2021.3, Version 1.0, JDK 17.0.1.

3.7 Additional Context

This is for the reporter to explain any additional information and is optional.

3.8 Assignees

This is shown in the sidebar on the right. Once a bug is reported, it will be assigned to one or more developers to fix.

3.9 Communication Between Members

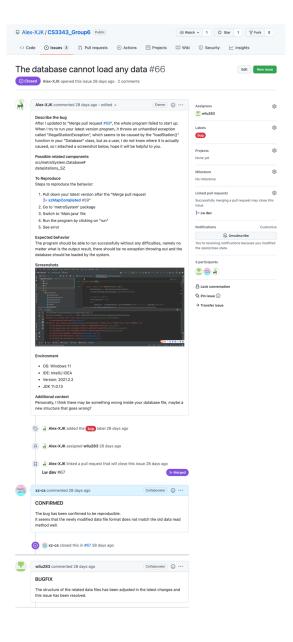
This is a great feature of GitHub Issues. After a bug is reported, members can communicate on the bottom of this bug to express their own ideas or provide additional information.

e.g., Alex Xu: "Although there is a bug in 'Least station' criteria, this is normal under 'Least time' criteria."

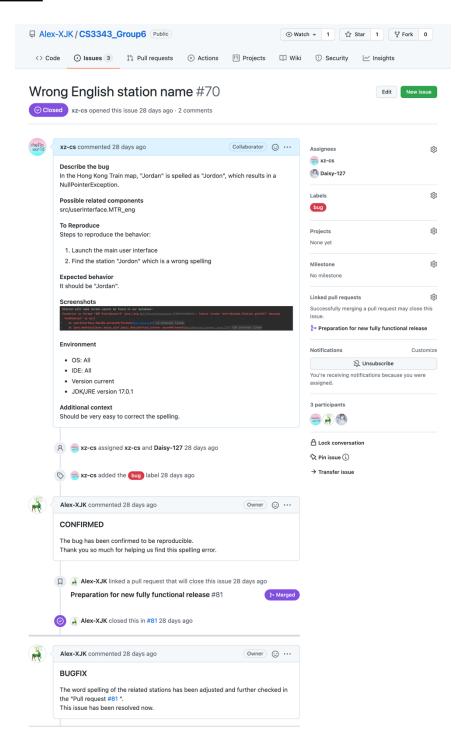
4 ISSUES

We have created 7 issues in GitHub in total. GitHub automatically generates a number for each of them. Here are the screenshots of these issues.

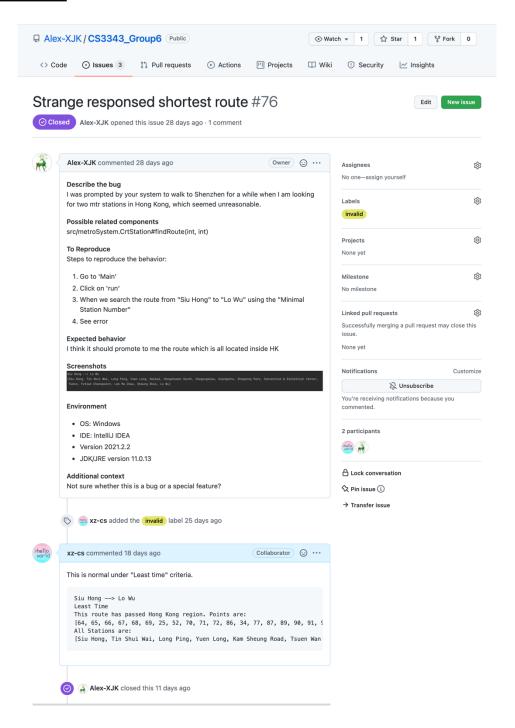
4.1 Issue #66



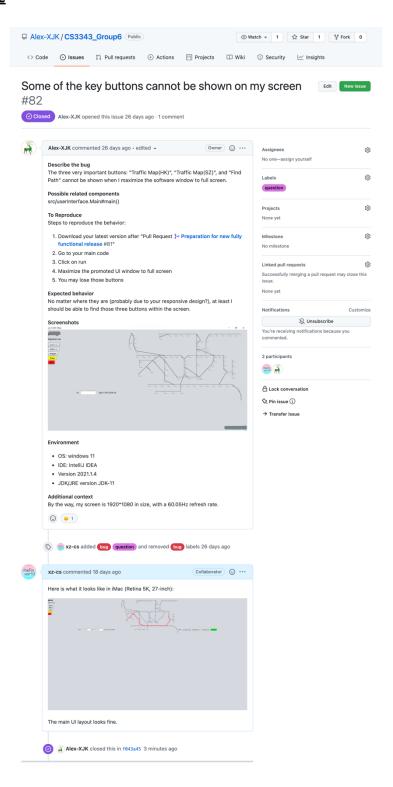
4.2 Issue #70



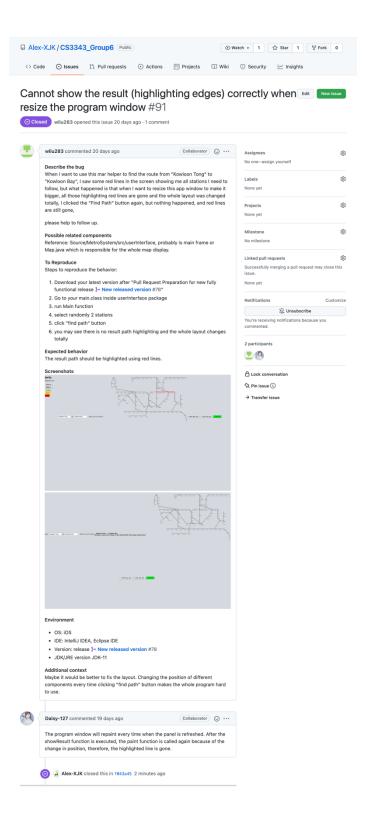
4.3 Issue #76



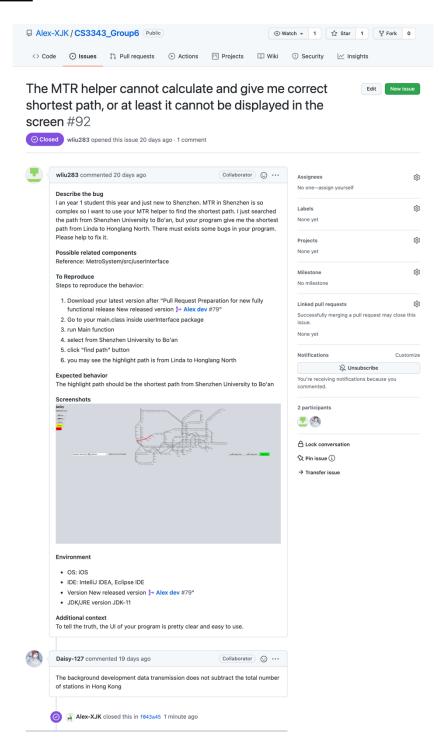
4.4 Issue #82



4.5 Issue #91



4.6 Issue #92



4.7 Issue #93

