

606 Project Iteration 0: ClouDroid

Team Name: Refni

- Scrum Master: Yahui Sun
- Product Owner: Brad Swain
- Other Team Members: Luocho Wang, Yifan Liu, Tianlong Chen, Junru Wu
- Client Name: Jeff Huang

Important Links

- Github: <https://github.com/BradSwain/TeamRefni/>
- Pivotal: <https://www.pivotaltracker.com/n/projects/2406547>
- Vimeo: <https://vimeo.com/367350607> (Password: TeamRefni)

Summary

ClouDroid turns existing android static analysis tools into **a web based service to scan for and track potential bugs/vulnerabilities across releases or individual changes in Android applications.** Users should be able to:

1. Supply a link to source code on github or a similar service and receive a report about potential bugs and vulnerabilities found.
2. Specify particular versions or commits to be analyzed and compare reports to see what bugs were fixed/introduced.
3. Analyze many projects at once without the service slowing down.
 - The analysis tools being run are computationally expensive and can take a long time to run. The service must accommodate many users requesting code to be scanned simultaneously without slowing down significantly.

Stories

```
As an anonymous user
When I visit the homepage
I want to be able to submit a project to be analyzed
So that the report will be available for viewing
```

As an anonymous user
When I visit the homepage
I want to be able to search for a project report by project name
So that I can find reports that are available for viewing for that project

As an anonymous user
When I click a project report
I want to see the bug report for that project
So that I can see what bugs were found

As an anonymous user
When I search for reports
I want to be able to compare multiple reports
So that I can see how the big reports differ overtime or between projects

User Interface

Mockup 1: Users can **submit an Android app for analysis**.

Submit Projects

[View Reports](#)

Search Reports

Compare Reports

Paste Your Github Url Here

https://github.com/BradSwain/TeamRefni

Submit

Submit Success !

Submit Failed !

Mockup 2: Users can **view vulnerability reports** for the submitted Android app.

Submit Projects

View Reports

Search Reports

Compare Reports

Dropdown button

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Bug 1
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Bug 2
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Bug 3
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Mockup 3: Users can **search bug reports based on keywords.**

Submit Projects

View Reports

Search Reports

Compare Reports

Put Your Keywords Here

TeamRefni

Search

Link

Search Matches 1

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

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Search Matches 2

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Search Matches 3

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Mockup 4: Users can **compare two vulnerability reports**.

Submit ProjectsView ReportsSearch ReportsCompare Reports

Dropdown button

Time Stamp 1: Fri Oct 18 22:22:02 CDT 2019

Time Stamp 2: Fri Oct 18 22:22:26 CDT 2019

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Bug 1

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Bug 1

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Bug 3

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Bug 4

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Customer Meetings

- Place: HRBB 416
- Dates: Prior to each Iteration
- Times: Must work around client's busy schedule

Grading Approach:

This project is unique in that there is an emphasis on the underlying infrastructure. Our customer has requested the system be scalable and so a large amount of effort is being put into the design of the cloud infrastructure.