**CSE 216 Project Manager Report: Phase 4, Team**

**Team Members:**

**Project Manager**: Ryan Stelly, ras222

**Admin**: Allison Codi, amc522

**Web**: Karthick Sivakumar, kas221

**Android**: Ji Ho Choi, jic518

**Backend**: Tanqiu Jiang, taj320

**URL:** <https://bmw-dba.herokuapp.com/>

**General Questions**

Describe the overall approach that your team took. Are you repurposing The Buzz for a new domain? Cleaning and refactoring to make the most effective The Buzz possible? Something else?

We are adding a search bar to The Buzz in this phase. The search bar will allow a user to enter a string and choose how broad the search is. The user will be able to search through all fields or choose to only search through message titles, message bodies, the name of the author, or the date that the message was posted.

Discuss the external API that you chose to use in this phase of the project. Is it relevant to the back end, the front ends, or both?

We did not add a new API, but the back end had to create a couple of new routes to let front end pull specific messages. The front end added a search bar which is a text field and a menu for the users to filter their search.

Describe how your team produced the developer manual.

Each member wrote their part of the manual describing how to use their code and IDE. The parts were then sent to the Project Manager and compiled into a single document that could be easily understood.

**Back-End Server**

Describe the changes you made to the back end in this phase of the project.

We added new GET routes to search for specific posts with different filters. There are routes to search by message title, message body, both, date the message was created and the name of who posted the message. The search is case insensitive and ignores spaces. The name must be an exact match and the format of the date matters, but message title and body do not have to be exact matches.

Is the back-end code appropriately organized into files / classes / packages?

Yes, the code is appropriately organized.

Are the dependencies in the pom.xml file appropriate? Were there any unexpected dependencies added to the program?

The dependencies are appropriate and there were no new dependencies added this phase.

What was the biggest issue that came up in code review of the back-end server?

The biggest issue was a formatting issue. We did not understand how user requests are represented in backend. We also had to consider the inputs case and whitespace.

What technical debt do you see in the current back-end server implementation?

There is no obvious new tech debt. We could maybe improve functions and fix left over debt from previous phases.

Describe any refactoring that was performed to reduce technical debt from the last phase.

There was no refactoring from the previous phase.

**Web Front-End**

Describe the changes you made to the web front end in this phase of the project

We added a search bar, and buttons to search by message title, message body, both, author, and date posted. There is a specific button for each search.

Is the web front-end appropriately organized into files / classes / packages?

The code is appropriately organized.

Are the dependencies in the package.json file appropriate? Were there any unexpected dependencies added to the program?

The dependencies are appropriate, and no new dependencies were added.

What was the biggest issue that came up in code review of the web front-end?

There were no real issues that came up.

What technical debt do you see in the current web front-end implementation?

The only tech debt is from previous phases, no new debt was created.

**Android App**

Describe the changes you made to the android app in this phase of the project

We added a search bar with same functions as web. The android app uses a different implementation than the backend routes. The android app performs the searches internally. The search looks for messages as typed, so input must match messages.

Is the android app appropriately organized into files / classes / packages?

The app is appropriately organized.

Are the dependencies in the build.gradle file appropriate? Were there any unexpected dependencies added to the program?

The dependencies are appropriate, and no new dependencies were added. There was a new import, filterable, added to the app.

What was the biggest issue that came up in code review of the android app?

The biggest issue was adding the Itemlist.adapter.editable. It took the most time.

What technical debt do you see in the current android app implementation?

The first time you search, you have to click search button twice.

**The Admin App**

How did your admin app change in order to support the new requirements in this phase of the project?

Allison implemented the same functions as backend (search by author, title, date, message, and a general search). The search is case insensitive, and fragments work too. The app was modified with new methods rather than everything in main, making it easier to read. When searching by date, it does not move on until input format is correct.

What other roles did the admin developer play in helping the project to move forward toward completion?

Allison worked with backend to ensure that functions were the same, she also helped Tanqui and Ji.

**Project-Wide**

Were there any team issues that arose?

There were no issues with the team during this phase. The hardest part was figuring out what we wanted to add to the app.

How did the amount of time your teammates spent compare to the amount of time you thought the tasks would take?

For Backend, the SQL statements took longer than expected.

For Admin, parsing date took longer. It turned out that date was a special object, and we were accepting input as a string. We had to convert the string into a date to compare the two.

Describe the most significant obstacle or difficulty your team faced.

The most significant obstacle was getting started. We had a difficult time trying to figure out what we wanted to add to our app.