**BICKER QUICKER**Product Backlog

Team 2

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# **Table of Contents**horizontal line

* Problem Statement **3**
* Background Information **3**
* Environment **4**
* Functional Requirements **4-6**
* Non-Functional Requirements **6**
* Use Cases **6**

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# **Problem Statement**horizontal line

* Sometimes when you have an argument with someone, you’d like to resolve it quickly by getting the opinion of someone else. There does not exist an app that provides a database of arguments that users can quickly traverse and add to. The Bicker Quicker app will provide an anonymous way to get answers fast on the arguments you post!

# **Background Information**horizontal line

* In such an interconnected world we have access to a plethora of websites with other people’s opinion written all over them but just how easy it is to write a lengthy blog post (when no one will read it) or mention something in a thousand long comment string (when no one will read it). Enter Bicker Quicker. We would like to develop an app that lets people to write down their bicker or quarrel succinctly and send it to the masses (other Bicker Quicker users) and get feedback quickly in the form of a simple thumbs up and thumbs down tally on which side the anonymous users of the internet agrees with.
* The problem domain contains a client user and their device (running android) and our Firebase server (cloud based computing accessible anywhere in the world) which holds the data that the clients access.
* Our targeted users are for every age group and every demographic.
* A similar product that lets users discuss and offer their opinion on topics and arguments is Reddit.
* Limitations of other major forms of discussing and posting ideas / opinions / arguments (reddit, discussion forums) is that by *not limiting* a users response (comment section etc.), this can create even more arguments as others offer their opinion that may not contribute to the original argument (creates tangent arguments). By *limiting* the response of a user we can create a simple voting system which gives the creator and recipient of a Bicker an absolute number answer.

# **Environment**horizontal line

* We will be developing the app in Android Studio (current version 3.4.1). Using ADB (android debug bridge), we can test the app on virtual mobile devices (emulated from the IDE) on the Pixel 2 and android x86/arm devices.
* We will be using Firebase’s Cloud Firestore which is a NoSQL database used to store and sync data for clients. It can easily be scaled up in terms of handling large amounts of requests from our users because of the processing power and multi-region accessibility Firebase offers (at a cost of course).
* From Firebase’s website’s console, we can access and visually see the data in preference to querying it from a client or literal console. Firestore’s GUI will show us what current data we have stored in the cloud and will help us identify more easily what is being stored and where.

# **Functional Requirements**horizontal line

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| **Backlog Id** | **Functional Requirement** | **Staus** |
| 1 | As a user, I want to be able to create an account with an email and password | Planned for Sprint 1 |
| 2 | As a user, I want to be able to log in with Google | Planned for Sprint 1 |
| 3 | As a user, I want to be able to log in with Facebook | Planned for Sprint 1 |
| 4 | As a user, I would like to create bickers | Planned for Sprint 1 |
| 5 | As a user, I would like to be able to add a title and description to my bicker | Planned for Sprint 1 |
| 6 | As a user, I would like to be able to assign my bicker to a category | Planned for Sprint 1 |
| 7 | As a user, I would like to invite another person to bicker with me | Planned for Sprint 1 |
| 8 | As a user, I want to be able to vote on other people’s bickers | Planned for Sprint 1 |
| 9 | As a user, I only want a person to be able to vote once on each bicker | Planned for Sprint 1 |
| 10 | As a user, do not want to see how people voted on a bicker until after I have voted | Planned for Sprint 1 |
| 11 | As a user, I want to be able to be able to forgo my ability to vote on a bicker to see how others have voted | Planned for sprint 2 |
| 12 | As a user, I want to be able to set a time limit for voting on my bickers | Planned for sprint 3 |
| 13 | As a user, I want to be notified when voting ends in one of my bickersends | Planned for sprint 2 |
| 14 | As a user, I want to be notified when voting ends on a bicker I voted on | Planned for sprint 2 |
| 15 | As a user, I want to be able to opt out of notifications | Planned for sprint 3 |
| 16 | As a user, I want to be able to add tags to bickers (both mine and others) | Planned for sprint 2 |
| 17 | As a user, I want to have a profile with all my past bickers | Planned for Sprint 2 |
| 18 | As a user, I want my profile to have statistics about bickers I have participated in | Planned for sprint 3 |
| 19 | As a user, I want to be able to search bickers by title | Planned for sprint 2 |
| 20 | As a user, I want to be able to search bickers by category | Planned for sprint 3 |
| 21 | As a user, I want to be able to search bickers by tag | Planned for sprint 3 |
| 22 | As a user, I want to be able to search bickers by number of votes | Planned for sprint 3 |
| 23 | As a user, I want to be able to search past bickers | Planned for sprint 2 |
| 24 | As a user, I want to be able to flag inappropriate bickers | Planned for sprint 3 (if time allows) |
| 25 | As a user, I want flagged bickers to be reviewed and potentially removed by moderators | Planned for sprint 3 (if time allows) |
| 26 | As a user, I want bickers to automatically block “bad words” | Planned for sprint 3 (if time allows) |

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# **Non-Functional Requirements**horizontal line

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| Backlog ID | Description |
| NF1 | Usability: As a developer, I would like to have a firestore database to store user bickers and let users browse the database through their app to look at other bickers |
| NF2 | Usability: As a user, I would like the app to be easy to use and aesthetically pleasing |
| NF3 | Security: As a developer, I would like my password data to be securely encrypted |
| NF4 | Maintenance: As a developer, I would like to censor inappropriate content |
| NF5 | Security: As a developer, I would like to clean input to protect against intrusions |
| NF6 | Maintenance: As a developer, I would like to protect against spam bickering |
| NF7 | Reliability: As a developer, I would like the server(s) to operate normally when some computers/servers shut down / experience interruptions |
| NF8 | Usability: As a user, I would like to query for new bickers by tag, category, etc. and get the results quickly (reliant on a fast server which Firebase provides) |

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