**BICKER QUICKER**Sprint 1 Planning Document

Team 2

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CS407 Purdue University

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# **Sprint Overview**horizontal line

**SCRUM Master: Ed**

**Meeting Schedule: 6:30pm Daily, if you can make it.**

Sprint 1 is the beginning of our development for the project so a good portion of the work will include a learning curve towards using/setting up the systems. This involves linking the GitHub repository to each individual machine, setting up the environment so that each member can begin development and learn how to use Android Studio/Firebase. Once this is complete we can begin our user story goals for Sprint 1. Overall, we want to implement the app basics so that there is a shell in place for adding additional features. The initial shell will be the framework of the project and is the basic structure around which the user interacts with the application. This framework will include creating a basic profile, the main page and the ability to use the Bicker system.

With these goals come some risks and challenges. One of these risks includes the dependency of each user story. Given that each user story depends partially, or fully, on the previous, there is a risk of causing a bottleneck and hindering the completion of later user stories.

# **Current Sprint Detail**horizontal line

**Overview:**

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| **Backlog Id** | **Functional Requirement** | **Hours** | **Assigned To** |
| 1 | As a user, I want to be able to create an account with an email and password | 24 | Ali, Ed |
| 2 | As a user, I want to be able to log in with Google | 25 | Ben |
| 3 | As a user, I want to be able to log in with Facebook | 29 | Ali, Ed |
| 4 | As a user, I would like to create bickers | 15 | Ed |
| 5 | As a user, I would like to be able to add a title and description to my bicker | 12 | Ed |
| 6 | As a user, I would like to be able to assign my bicker to a category | 7 | Ben |
| 7 | As a user, I would like to invite another person to bicker with me | 40 | Brendan |
| 8 | As a user, I want to be able to vote on other people’s bickers | 29 | Blake |
| 9 | As a user, I only want a person to be able to vote once on each bicker | 23 | Kyle, Ben |
| 10 | As a user, do not want to see how people voted on a bicker until after I have voted | 11 | Blake |
| 11 | As a user, I would like to have a main page where I can view active bickers | 25 | Kyle |

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**User Story 1:** As a user, I want to be able to create an account with an email and password

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Set up a firebase database to handle storing login info | 2 | Ali |
| 2 | Create the UI for the login screen with a login button, register button, and fields for email and password. | 2 | Ali |
| 3 | Create the UI for the registration screen with A register and back button and fields for email, password, and password confirmation. The rules for a valid password should also be displayed. | 3 | Ali |
| 4 | Set up backend logic for login so that the login information is sent to the database and verified. | 4 | Ali |
| 5 | Write logic for account registration via an email and password. Registered accounts should be saved to the database, and the user should automatically be logged in when successfully registering an account. | 5 | Ali |
| 6 | Make necessary changes to ensure that the app cannot be accessed without logging in. | 4 | Ali |
| 7 | Add unit tests | 4 | Ed |

**Acceptance Criteria:**

1. Given that I have a correct email and password, when I click login I should be taken to the main screen of the app.
2. Given I have not successfully logged in, when I open the app I should only be able to access the login and registration screens
3. Given that I have provided a valid email and password, after I click “register”, I should now be able to log in with these account details.
4. Given that I have already registered an account with an email, when I attempt to register another account with that email address, I should not be able to register.
5. Given that I am attempting to register an account, when I input a password it should only be accepted if it has: 6-20 characters, at least 1 uppercase letter, 1 lowercase letter, and 1 number.
6. Given that a user has input an incorrect email/password, when they attempt to log in, they should be displayed an “incorrect email/password” message instead of being logged in.

**User Story 2:** As a user, I want to be able to log in with Google

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Authentication tutorials can be found at firebase.google.com/docs/auth/  Read and understand how this authentication works and how to handle a returned authentication token from firebase | 1 | Ben |
| 2 | Create button “Sign in via Google” that when pressed takes you to a username/password google login screen | 2 | Ben |
| 3 | Implement code from firebase authentication tutorial and verify your login worked and you have a valid token | 3 | Ben |
| 4 | Implement a “Sign Out” button that when pressed, signs out a user and takes them to the main login page. | 2 | Ben |
| 5 | Investigate how to keep credentials valid after a user closes the app but doesn’t sign out. When app is opened if a user was previously logged in, it takes them to the main page bypassing the login screen. | 3 | Ben |
| 6 | Disable the users ability to paste text into the password input. Make dots appear instead of actual password text to hide password as it is typed for more security. | 5 | Ben |
| 7 | Enable the ability for a user to sign into the same account from multiple devices and sync data across them. | 6 | Ben |
| 8 | Add unit tests | 3 | Ben |

**Acceptance Criteria:**

1. Given that a user isn’t signed in, when they select the sign in button for facebook, then they’re promoted login in with their facebook account.
2. Given that a user is signed in with their facebook account, when they select the logout button, then they’re logged out of the app.
3. Given that a user is signed in with their facebook account, when they trigger an option that pushes user information to the database, then accurate user data is pushed.

**User Story 3:** As a user, I want to be able to log in with Facebook

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Access the “Facebook developers site” and register the app to get an Ap ID and Ap Secret | 4 | Ali |
| 2 | Configure the firebase console to enable facebook login | 5 | Ali |
| 3 | Using the facebook developers documentation, configure the LoginManager object. | 5 | Ed |
| 4 | Write the logic for and design the sign in button. | 4 | Ali |
| 5 | Write the logic for and design the sign out button. | 4 | Ali |
| 6 | Using the getCurrentUser method, retrieve the current user’s account data on registration and push user info to the database. | 4 | Ed |
| 7 | Unit testing for security | 3 | Ali |

**Acceptance Criteria:**

1. Given that a user isn’t signed in, when they select the sign in button for facebook, then they’re promoted login in with their facebook account.
2. Given that a user is signed in with their facebook account, when they select the logout button, then they’re logged out of the app.
3. Given that a user is signed in with their facebook account, when they trigger an option that pushes user information to the database, then accurate user data is pushed.

**User Story 4:** As a user, I would like to create bickers

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Add a “create bicker” button to the main screen that takes you to a create bicker page. | 1 | Ed |
| 2 | Create the UI for the create bicker page. Should have:   * Text input for user 1’s side of the argument * Create button * Back button | 5 | Ed |
| 3 | Create a new bicker with all of the field info in the database on clicking “create”. All fields must be filled in. | 5 | Ed |
| 4 | The user should be returned to the main screen after hitting back, or successfully creating a bicker. | 2 | Ed |
| 5 | Add unit tests | 2 | Ed |

**Acceptance Criteria:**

1. Given that I have not input anything for the description, when I click “create”, I should be notified that I need to input an argument.
2. Given that I have input a description, when I click “create”, a bicker should be created and saved to the database.
3. Given that I have successfully created a bicker, after I click create I should be returned to the main screen.

**User Story 5:** As a user, I would like to be able to add a title and description to my bicker

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Upon clicking “create bicker” and loading the UI page for making a bicker, allow the user to give the new bicker a title and description | 2 | Ed |
| 2 | Ensure the title and description do not violate the rules of the app (inappropriate language, data injection, emojis, etc) and are constrained to a character limit | 7 | Ed |
| 3 | Unit test for security/swearing and boundary cases for character limits | 3 | Ed |

**Acceptance Criteria:**

1. Given that a user has clicked the “create bicker” button, when they select the title or description text field, they will be able to enter the desired text.
2. Given that a user has selected the title or description field, they can enter text when they type on their keyboard.
3. Given that a user has met the max input length for the title (64 chars) or description (512 chars) when typing their input, then a message dialogue will display alerting the user that they have met the max input length.
4. Given that a user has input all the necessary fields to create a bicker, when the user saves the bicker, then the given information will be saved correctly in the database.

**User Story 6:** As a user, I would like to be able to assign my bicker to a category

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Add a category selector to the create bicker page; category must be selected to create bicker, default Miscellaneous | 3 | Ben |
| 2 | Allow the user to select from the following categories: Art, Board Games, Books, Comedy, Food, Miscellaneous, Movies, Music, Philosophy, Politics, Relationships, Science, Sports, TV Shows, Video Games | 2 | Ben |
| 3 | Unit tests | 2 | Ben |

**Acceptance Criteria:**

1. Given that a user is on the create bicker page, when they click on “Select Category” then the user can select one from a drop down menu
2. Given that a user does not select a category when creating a new bicker, then the category will default to Miscellaneous.
3. Given that a user has input all the necessary fields to create a bicker, when the user saves the bicker, then the selected category will be saved correctly in the database.

**User Story 7:** As a user, I would like to invite another person to bicker with me

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Generate a unique shortcode on the client side once a user starts creating a bicker. | 4 | Brendan |
| 2 | Push the shortcode and other bicker data to the database. | 2 | Brendan |
| 3 | Update the UI to display the shortcode to the initial user, so they can pass on the code to another user through means outside of the app. | 5 | Brendan |
| 4 | Design an input for shortcode in the UI so a second user can access the created bicker. | 5 | Brendan |
| 5 | Modify bicker data in the database if the second user accepts the bicker. | 3 | Brendan |
| 6 | Remove bicker data from database if the second user declines the bicker. | 2 | Brendan |
| 7 | Bicker data is automatically scrubbed from database if the second user doesn’t accept the bicker request after a certain amount of time. | 5 | Brendan |
| 8 | Display the bicker description and allow user 2 to submit their side of the argument, and modify the bicker data in the database. | 4 | Brendan |
| 9 | Mark the bicker as accepted in the database, and update the UI so all users can view the bicker on the landing page. | 5 | Brendan |
| 10 | Unit testing code generation, bicker acceptance, bicker declining, and pending bickers expiring due to time. | 5 | Brendan |

**Acceptance Criteria:**

1. Given that a user has created a bicker, when the shortcode is generated, then it will be unique.
2. Given that a user is given a bicker shortcode, then when they enter it into the app, then they will be presented the bicker information along with the option of accepting or declining the bicker.
3. Given that a user is viewing a bicker they accepted, when they are entering their side of the argument, then they will not be able to view the first user’s side of the argument yet.
4. Given that a user has entered a bicker code, when they decline the bicker, then the bicker data will be removed from the database.

**User Story 8:** As a user, I want to be able to vote on other people’s bickers

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Query firebase for the bicker data when user selects a bicker for viewing. | 3 | Blake |
| 2 | Initiate database response with the needed bicker data to the client. | 2 | Blake |
| 3 | Design the UI so the bicker is displayed to the user on the main page. | 5 | Blake |
| 4 | Design buttons for the user to vote for either user 1’s side or user 2’s side of the bicker. | 5 | Blake |
| 5 | Design a button for the user to abstain from voting if they don’t fully support either side. | 5 | Blake |
| 6 | Push the user’s voting information to the bicker object in the database. | 4 | Blake |
| 7 | Unit testing, voting for either user 1, user 2, or neither side of the bicker. | 5 | Blake |

**Acceptance Criteria:**

1. Given that a user is viewing a bicker they haven’t voted on, when they vote for user 1’s side, then the database will be updated to reflect that.
2. Given that a user is viewing a bicker they haven’t voted on, when they vote for user 1’s side, then the database will be updated to reflect that.
3. Given that a user is viewing a bicker they haven’t voted on, when they choose to vote for neither side, then doing so won’t modify the vote split in the database.

**User Story 9:** As a user, I only want a person to be able to vote once on each bicker

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Retrieve the ID of the bicker a user has selected, and query the database to see the list of users that have voted on the bicker. | 5 | Kyle |
| 2 | Retrieve the user id of the user that selected the bicker, whether they have a bicker quicker account, facebook account, or google account. | 4 | Kyle |
| 3 | Iterate through the user id list on the bicker object in the database, and cross reference if the id retrieved in task 2 matches anything. | 4 | Kyle |
| 4 | If there is a match in user ids, block the user id from being able to vote on the bicker. | 2 | Kyle |
| 5 | Modify the UI so that the user is aware that they have already voted on the bicker. | 4 | Ben |
| 6 | Unit testing, attempt to vote on a bicker that you’ve already voted on. | 4 | Ben |

**Acceptance Criteria:**

1. Given that a user has voted on a bicker, when they try to vote on the same bicker again, then they will be blocked from doing so.
2. Given that a user has never voted for a bicker before, when they are trying to vote on that bicker, they will not be blocked from doing so.
3. Given that a user has voted on a particular bicker, when they attempt to vote on a different bicker they haven’t voted on, then they will not be blocked from doing so.

**User Story 10:** As a user, you do not want to see how people voted on a bicker until after I have voted

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Check the database to see if a user is viewing a bicker that they haven’t voted on yet. | 1 | Blake |
| 2 | Once the user has voted, query the database to retrieve information on the voting statistics for the bicker. | 3 | Blake |
| 3 | Update the UI to display the voting splits to the user. | 5 | Blake |
| 4 | Unit testing | 2 | Blake |

**Acceptance Criteria:**

1. Given that a user hasn’t voted on a particular bicker, when they are viewing that bicker, then they won’t be shown the voting splits for that bicker.
2. Given that a user has voted on a particular bicker, when they are viewing that bicker, then they are shown the voting splits for that bicker.
3. Given that a user has selected to abstain from voting on a bicker, when they are viewing that bicker, then they are still shown the voting splits for that bicker.

**User Story 11:** As a user, I would like to have a main page where I can view active bickers

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| **Task** | **Description** | **Hours** | **Assigned To** |
| 1 | Import bicker data from firebase on loading the main screen. | 3 | Kyle |
| 2 | Design UI for screen to show active bickers that you have not voted on yet | 6 | Kyle |
| 3 | Design UI for screen to show active bickers that you have already voted on (should be similar to task 2) | 2 | Kyle |
| 4 | Add ability to swipe between the two screens | 2 | Kyle |
| 5 | Add a drawer to select the profile and settings screens (which are not implemented yet) | 2 | Kyle |
| 6 | Implement ‘infinite scrolling’ to be able to view all bickers by continuously scrolling down | 5 | Kyle |
| 7 | Implement tapping on a bicker to expand them and see the arguments. | 2 | Kyle |
| 8 | Unit testing | 3 | Kyle |

**Acceptance Criteria:**

1. Given that there are currently active bickers, when I go to the main screen, I should see a list of active bickers.
2. Given that I am on the main screen that displays bickers that I have not voted on, when I swipe right I should be taken to the screen that displays all active bickers that I have already voted on.
3. Given that I am on the main screen that displays bickers that I have already voted on, when I swipe left I should be taken to the screen that displays all active bickers that I have not voted on.
4. Given that I am on the main screen, when I tap on a bicker it should toggle between showing the sides of the argument and not showing them.
5. Given that I am on the main screen, when I tap on the drawer button it should open a drawer.
6. Given that I am on the main screen, when I scroll down, more bickers should be pulled from firebase and be displayed.

# **Backlog**horizontal line

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| **Backlog Id** | **Functional Requirement** | **Staus** |
| 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 2 |
| 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 2 |
| 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 3 |
| 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 3 |
| 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) |