**Dashboard.test.js Test Document**

**Bagel.io (Daily Time Manager)**

**Created by** “Bakery Studios”

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Collin McColl, Vlad Lekhtsikau, Gene Park, Kalani Richard, Simeon Tran

Test Document written by Gene Park

**Module Name:** The “logindatabase” set of tests in the “tasks.test.js” for the back-end source files.

**Description of Module:** The logindatabase module is an API endpoint on the server-side (located in tasks.js) that takes a JSON object with a username and password field. The system then checks the database (via dbUtils.js) if there is an account with the corresponding username and password. If none is found then a JSON object is returned with loginAllowed set to false, and details whether the password or username (or both) is incorrect. If there is a corresponding username and password then loginAllowed will be set to true and a payload will be returned containing the username, password, email, and tasks array associated with the user.

**Functional Testing Done:**

Testing to see login reads and confirms sent JSON object properties correctly and gives the correct response on failure or success.

**Equivalence Classes:**

**Suite 1: 'POST register: valid input'**

* Case 1: All fields are correct in this case. This case checks if login works if there is an existing account.
* Case 2: Incorrect password. This case checks if login module returns correct response if username is correct but password is incorrect (i.e. does not match the user password stored in the database)
* Case 3: Incorrect user. This case checks if the login module returns correct response (false) if specified username does not exist in the database.

**Suite 2: 'POST loginDatabase: invalid input'**

* Case 1: Check for invalid input, if only the password is blank should send an error.
* Case 2: Check for invalid input, if only the username is blank should send an error.