# **BED Assignment 01 Documentation**

## Requirements

* Mysql2
* Multer
* Express
* Body-parser
* bcrypt

## Setting Up

1. Install the required node modules specified in package.json file
   1. Npm install
2. Run setup.sql included in the file to setup and populate the database
   1. bed\_assignment.sql
3. Go into db.js to change the configurations for username and password for database

### Uploading Images

1. On postman, use form-data to send the post/put requests.
2. Using the key upload, set the file type to file and then choose the image that you wish to upload and upload!

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### Logging In

* Password automatically stored and hashed when creating new user
  + When creating new user using endpoint POST /users, have to include additional request body password for user password
    - Same when updating user information with put
* Endpoint used for logging in is POST /user/login
* Request body used is username and password
* If successful,
  + Status 200
  + Shows “Login successful, welcome user <username>
* If unsuccessful
  + Status 500
  + Internal server error

## Bonus features

* Use of asynchronous programming
* Writing image files locally to server storage
* Writing image binary into database and reconstructing them
* Login feature with password hashing and salting
  + Salt used differs for each user and stored together in database

## Contributions

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| **Jess Kwek** | * Endpoint 1 to 6 * Writing and saving of image files * Asynchronous programming |
| **Kar Wei** | * Endpoint 7 to 12 * Login feature with hashing and salting * Asynchronous programming |