Backend installation instructions

# Download list

* VS Code
* NodeJS
* MySQL workbench
* Tesseract
* Postman
* MongoDBCompass

# NodeJS server

1. Download and install VS code, NodeJS, you may need to add “C:\Program Files\nodejs\” to the end of your Path variable on the "User variable" section of the Environment Variables on the System Properties. Or reboot after installing nodejs should fix issues later also.
2. Open the “Backend” folder in visual studio code
3. Open a new terminal via the menu “Terminal > New Terminal”
4. Type in “npm install” to install all npm dependencies
5. Type “node index.js” to start the server, you can then open a web page at localhost:3000 or uncomment the auto open code in index.js
6. You will need to update the path in /routes/receipt.js at line 86 to your tesseract.exe file location.
7. The API documentation is in documentation>Backend API documentation
8. Optionally run the “package.py” script in the util folder to install all python dependencies for the OCR script automatically.
9. Once the MySQL database has been transferred you can update the address details in the /config/config.json file, the previous team was using No-IP to hide the public IP address of the person hosting the MySQL database but this is just personal preference.

# MongoDB database

1. Install MongoDBCompass
2. Connect to the database with the connection string: mongodb+srv://discountmateuser:DMPassword@cluster0.ho51x.mongodb.net/test?authSource=admin&replicaSet=atlas-13bh0g-shard-0&readPreference=primary&ssl=true
3. Receipts are stored in DiscountMate>receipts They are stored with an id, processed Boolean (for the OCR script) and the img object, which is the image stored in binary.

# MySQL database

1. Install MySQL workbench
2. Log into the MySQL server with the details in documentation>MySQL Database design.docx
3. Go to Navigator -> Management -> Data Import/Restore.
4. Restore the files from ..insert here
5. You will need to port forward the MySQL ports set, default is 3306