Backend API documentation

All API to be added here.

API Added:

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| Type | Path | Details |
| Post | /Shop | Insert shop  Details required:  Name: VARCHAR 255, not null.  Address: VARCHAR 255, not null.  Postcode: INT, not null. |
| Get | /Shop | Gets all shops in JSON format with id, name, address and postcode. |
| Post | /Item | Insert item  Details required:  shopid: INT, not null, PK  name: VARCHAR 255, not null  price: DECIMAL 15,2 not null  sale: INT not null, 1 if on sale, 0 if not.  Discountend: DATE format is YYYY-MM-DD not null  Category: VARCHAR 255  Discountprice: DECIMAL 15,2  Discountpercentage: DECIMAL 15,2 |
| GET | /Item | Gets all items in JSON format with id, shopid, name, price, sale, discountend, category, discountprice, discountpercentage |
| Put | /Item | Updates an item with:  Id: INT, not null, PK  shopid: INT, not null, PK  name: VARCHAR 255, not null  price: DECIMAL 15,2 not null  sale: INT not null, 1 if on sale, 0 if not.  Discountend: DATE format is YYYY-MM-DD not null  Category: VARCHAR 255  Discountprice: DECIMAL 15,2  Discountpercentage: DECIMAL 15,2 |
| Put | /shop | Updates a shop with:  Id: INT, not null, PK  Name: VARCHAR 255, not null.  Address: VARCHAR 255, not null.  Postcode: INT, not null. |
| GET | /Item/search? | Searches for item with a body.name requirement, returns:  Id: INT, not null, PK  shopid: INT, not null, PK  name: VARCHAR 255, not null  price: DECIMAL 15,2 not null  sale: INT not null, 1 if on sale, 0 if not.  Discountend: DATE format is YYYY-MM-DD not null  Category: VARCHAR 255  Discountprice: DECIMAL 15,2  Discountpercentage: DECIMAL 15,2 |
| Get | /shop/search? | Searches for shop with a body.name requirement, returns:  Id: INT, not null, PK  Name: VARCHAR 255, not null.  Address: VARCHAR 255, not null.  Postcode: INT, not null. |
| Post | /user/create | Creates a new user.  Id: INT, PK, Not null, auto generated  Username: VARCHAR (50), Unique  Password: VARCHAR(255)  Email: VARCHAR(255)  Mobile: VARCHAR(9)  Permission: INT, 1 = admin 0 = user  Postcode: INT  Searchradius: INT  Active: INT |
| Post | /user/login | Logs a user in and responds with session key  Username: VARCHAR(50)  Password: VARCHAR (255) |
| Put | /user/reset | Changes a users password  Username: VARCHAR(50)  Password: VARCHAR (255)  Newpassword: VARCHAR(255) |
| Get | /OCR | Test for the OCR python script |
| Get | /receipt | Displays the receipt image upload test HTML page |
| Post | /receipt | Uploads an image to MongoDB and stores them locally in /uploads/, this also runs the OCR script automatically when a receipt is posted  Name: string  Desc: string  Image: object (image extensions like png, jpg etc) |
| Post | /view | View an image stored in the MongoDB, required reference id : string |
| Post | /item/recommendation | Returns the logged in users recommended items in the same format as the /item get request. |