

COMP 5703

**KINDER FOOD FINDER
SYSTEM**

**KINDER FOOD
FINDER GROUP 2**

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 - 3. WEB-PAGE SERVER**
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PROJECT BACKGROUND

Introduction to the project (1/2)

- Animal welfare refers to how animals or livestock is coping with the **conditions in which they live**.
- **Farmstead and Brand** can adopt this movement and raise animal in a moral way.
- More and more people wants **support** for the animal welfare practice.
- **Standards** by animal welfare organizations help consumers to identify “animal-friendly” products.

PROJECT BACKGROUND

Introduction to the project (2/2)

- Gap exists between consumers' attitude and behavior due to:
 - Cheaper, tastier products;
 - Time consuming, complex information searching process.
 - Lack of connection between organizations and individual



Client's objective: Collecting data about consumers' behaviour to analyse and identify factors that impact purchasing decision toward animal-welfare.

PROJECT BACKGROUND

Kinder Food Finder project

SOLUTION

Kinder Food Finder system

- This project adopts the **sourcing method**.
- Main objective is developing an IT system:
 - Let users search for animal-welfare information of products;
 - Record users' searching history.
- *The way information is presented could impact people's behavior*

(Levine, Chan, Satterfield, 2015)



PROJECT BACKGROUND

Requirements for the system

MOBILE APPLICATION

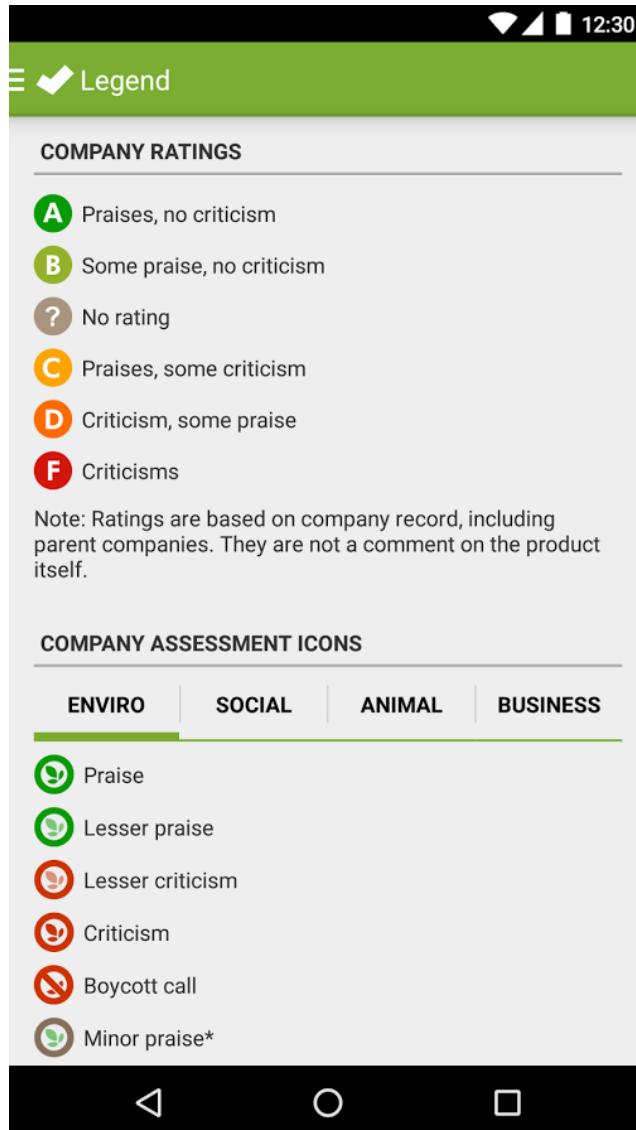
- Search/ browse function that **displays** animal-welfare rating of different brands;
- Locate and Report function enables users **inform others** and to **find where to buy** a brand;
- Collect **statistical data** from users (i.e. How many times a brand is searched)

SERVER

- **Database management** functions: insert, query, delete, update;
- Able to communicate with the **mobile app** (Receive and send data);
- Summarize and display **statistical data**.

PROJECT BACKGROUND

Related works (1/2) – Shop ethical!



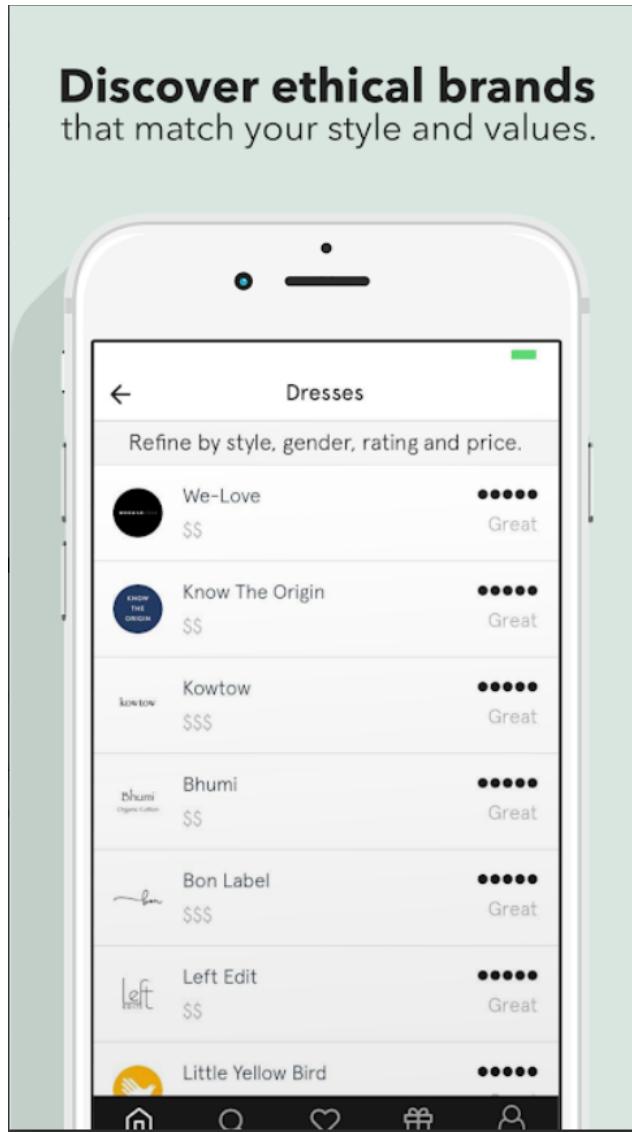
Shop ethical!

- Mobile application
- Provide users with ethical information of the several companies (Not ethics of the product)
- Support users making purchasing decision.
- Cover multiple product categories: Food & Drink, Baby, Clothing, Pet, Retail, Toys, etc.

Figure 1. Shop ethical! app

1 PROJECT BACKGROUND

Related works (2/2) – Shop ethical!



Good on you

- Mobile application
- Users can access ethical rating of fashion brands.
- Rating is determined by how the brand involves in: pollution, waste, human and animal welfare.

Figure 2. Good on You app

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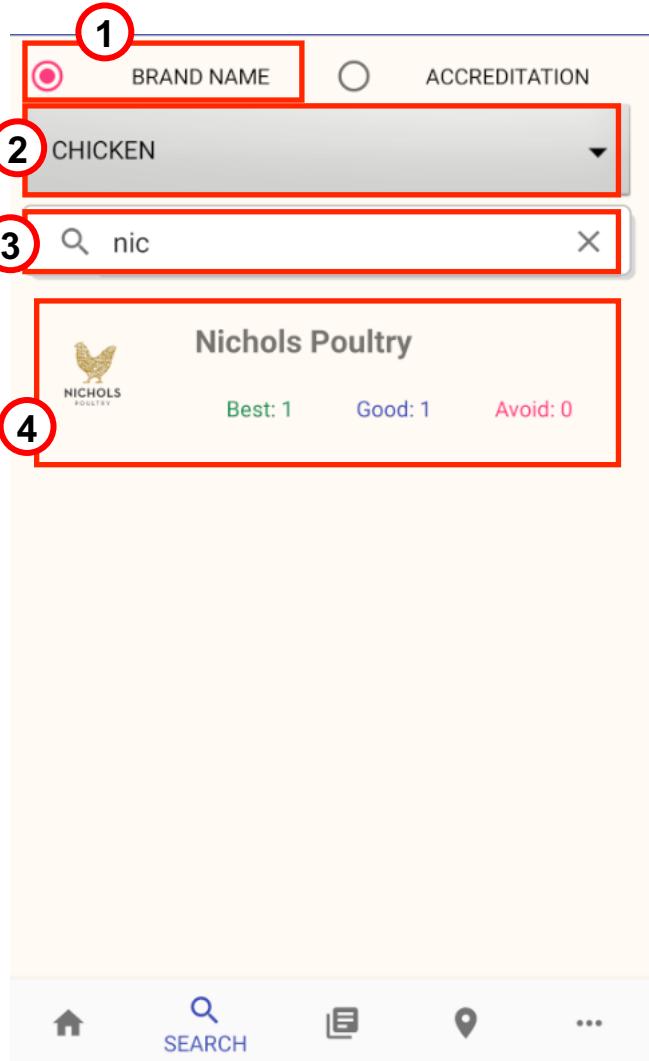


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- **Languages: JAVA**
- **Software: Android Studio**
- **Third Party Libraries and Tools**
 - Facebook Login— User login;
 - Google play services: Maps—location implementation;
 - Volley— Internet implementation;
 - Picasso—Image load and cache;
 - Gson— JSON file parse;

- **Search for rating by brand or accreditation**
- **Browse a rating by category, accreditation, and rating**
- **Report a Store Feature**
- **Location Feature**
- **Data Interaction Feature**

Main Features — Search Feature by Brand Name



DESCRIPTION

- 1) Users can click on a radio button to select one of the searching filters like ***BRAND NAME***.
- 2) Users can choose a product category from the drop-down list (such as, eggs, chicken or pork).
- 3) Users can ***input text*** on the search box to conduct searching by brand name. For instance, users input “***nic***” text in the search view.
- 4) The ***result*** will be displayed in the recycler view. When users click on one item of the result, the application will direct user to the ***Detail page***.

Main Features — Search Feature by Brand Name

← chicken



NICHOLS
POULTRY

Nichols Poultry

RSPCA Approved Indoor is a **Good** choice, well done but try to buy in moderation.

PROOF is a **Best** choice, congratulations!

1

Learn More: About what this rating means for the animals

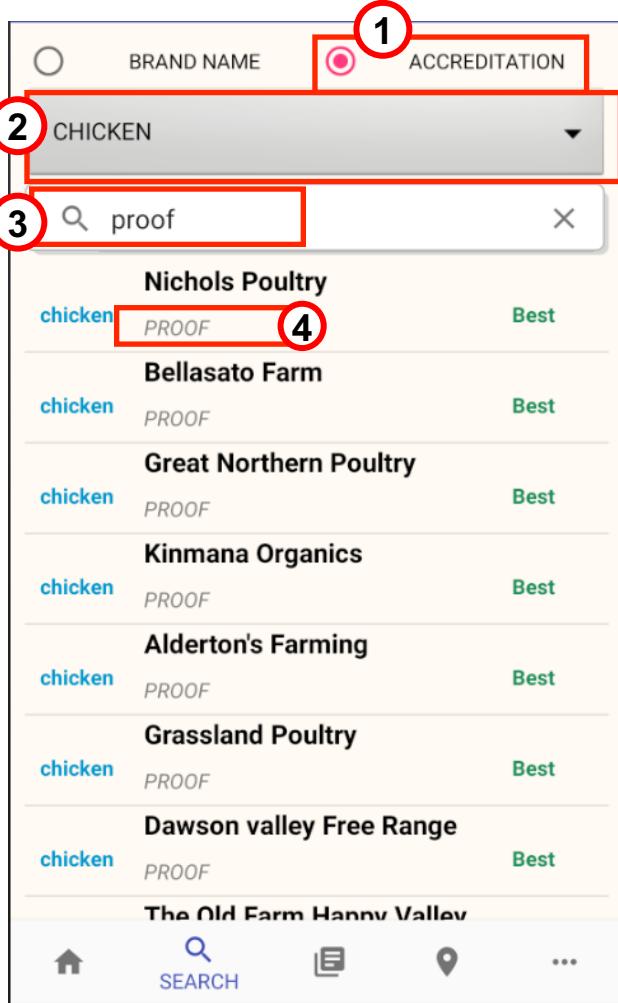
Location: Available in TAS

Report: Where you found this product

DESCRIPTION

- 1) In the *Detail page*, it will show the information about the brand, including *brand name, accreditation, rating, location and brand image*.
 - One brand may have **multiple ratings** according to different accreditations.

Main Features — Search Feature by Accreditation



DESCRIPTION

- 1) Users can click on a radio button to select one of the searching filters like ***ACCREDITATION***.
- 2) Users can choose a product category from the drop-down list like ***CHICKEN***.
- 3) Users can ***input text*** on the search box to conduct searching by brand name. For instance, when users input “***proof***” text in the search view.
- 4) The ***result*** will be displayed in the recycler view. When users can click on one item of the result, the application will direct user to the ***Detail page***.

Main Features — Search Feature by Accreditation

← chicken



Nichols Poultry

1 PROOF
This is a **Best** choice,
congratulations!

Learn More: About what this rating means
for the animals

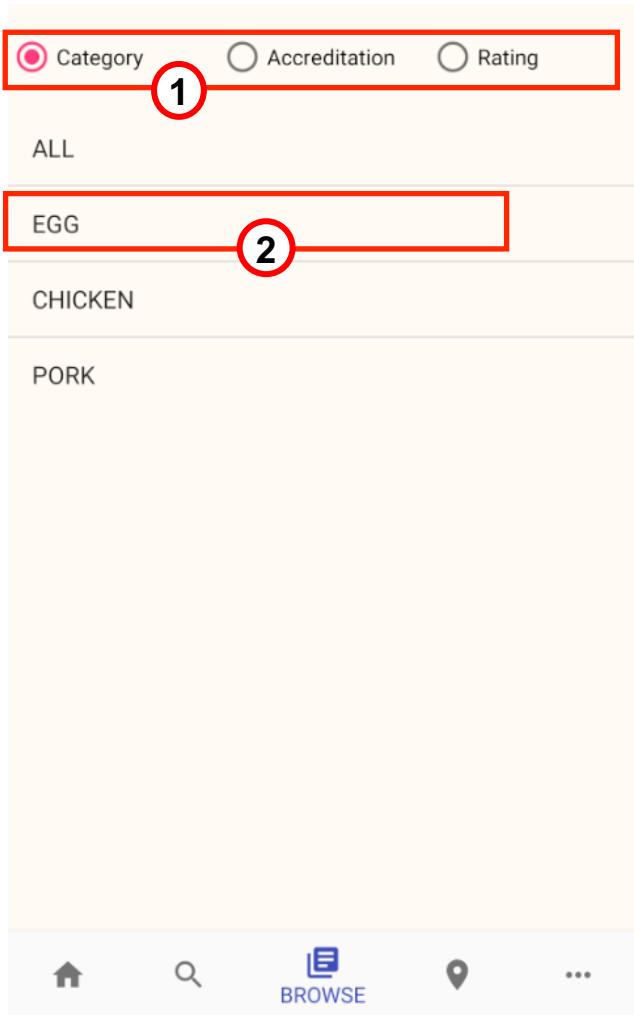
Location: Available in TAS

Report: Where you found this product

DESCRIPTION

- 1) In the *Detail page*, it will show the information about the brand, including *brand name, accreditation, rating, location and brand image*.
 - Only display **One Rating** according to the searching accreditation.

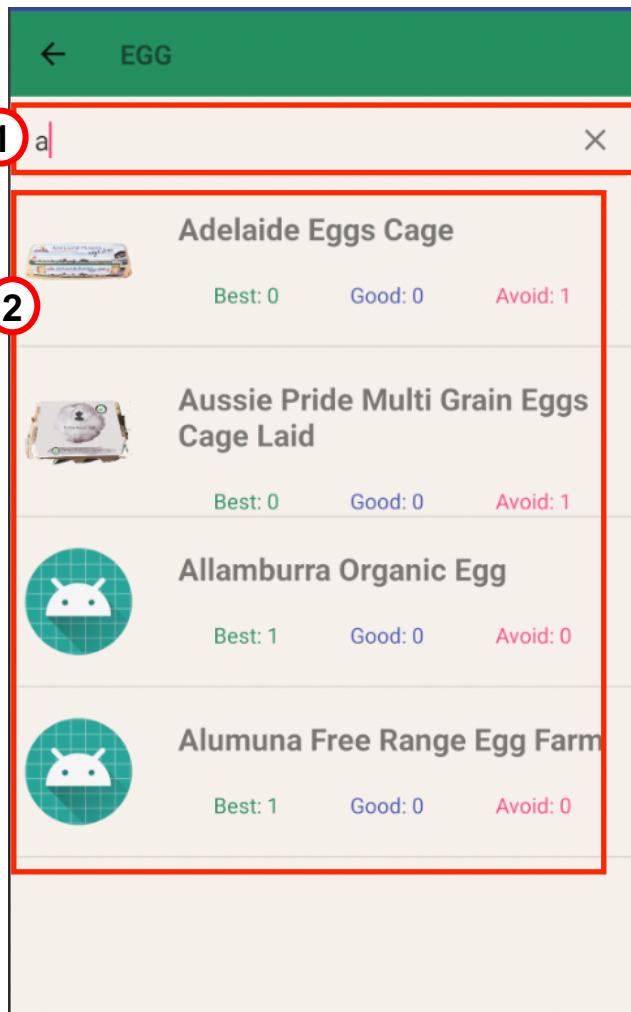
Main Feature — Browse Feature



DESCRIPTION

- 1) Users can click on a radio button to select one of the browse filters, for instance, ***Rating***, ***Accreditation or Category***.
- 2) The result will display in the list view based on the browse filters. Users can choose a ***Classification*** like “***EGG***.”

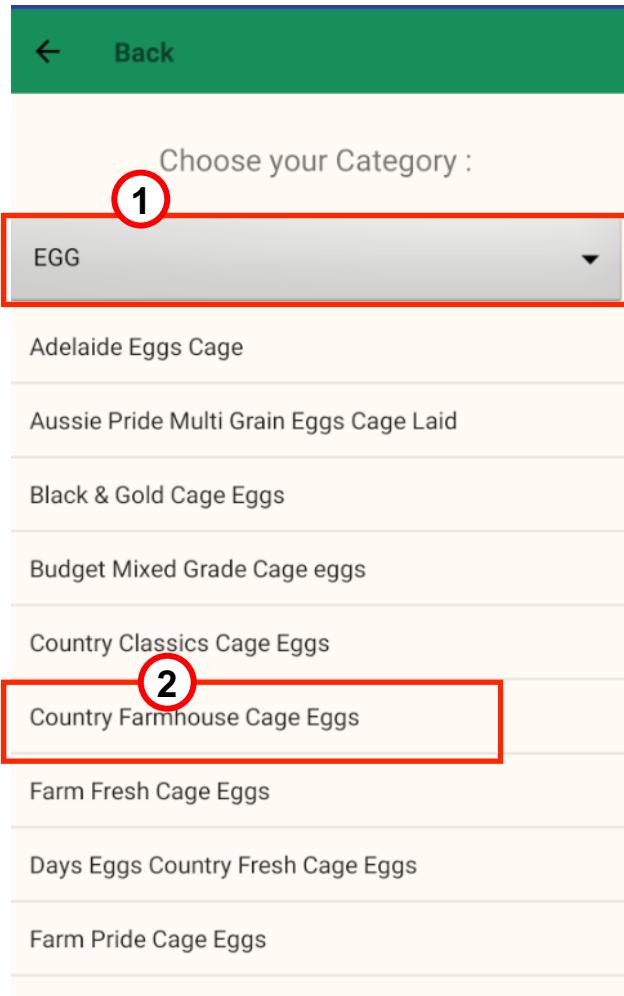
Main Feature — Browse Feature



DESCRIPTION

- 1) Users can input text on the search box to conduct searching by brand name. For instance, users input “*a*” text in the search view.
- 2) The ***result*** will be displayed in the recycler view.
- 3) Users can click on one item of the result to view the detail information, the application will direct user to the ***Detail page***.

Main Feature — Report Feature



DESCRIPTION

- 1) Users should choose a product category from the drop-down list, like **EGG, CHIKCKEN or PORK**.
- 2) Users can click on one brand name in the list view. For example, users click on "**Country Farmhouse Cage Eggs**", the application will direct users to the **Report Page**.

Main Feature — Report Feature

Report

Product : egg

Brand : Country Farmhouse Cage Eggs

Store : Store Name

Address : Detailed Address

State : State

Post-Code : PostCode

UPDATE

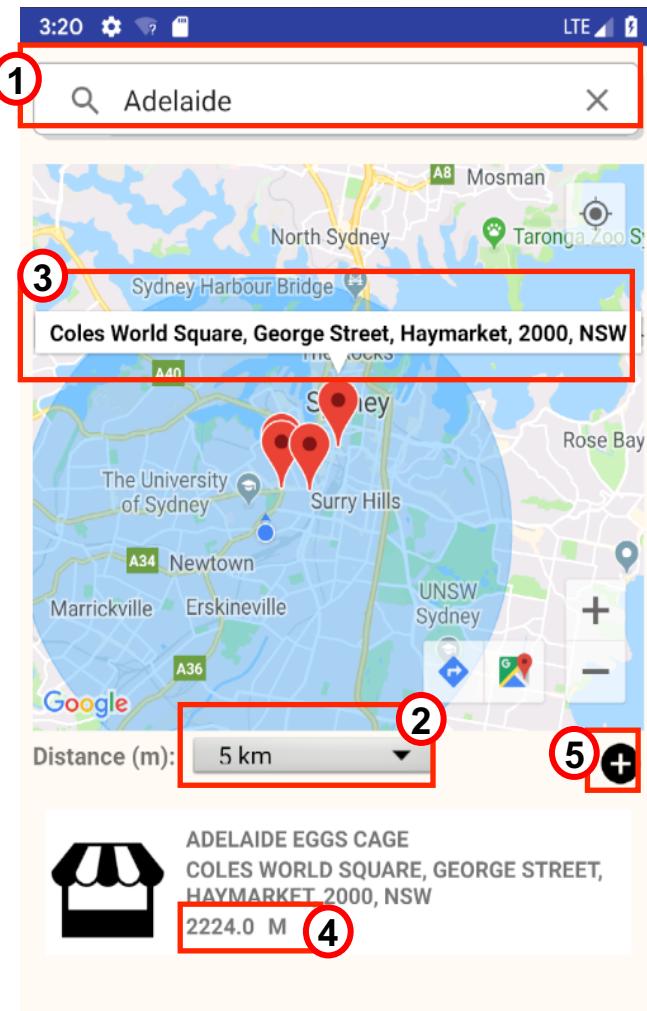
SUBMIT

Back

DESCRIPTION

- 1) In the *Report Page*, the *product category* and *brand name* have already completed by users selection. Users need to fill up the store information, including ***Store Name, Address, State, and Postcode.***
- 2) User can click on the “***UPDATE***” button to ensure the application has the newest data.
- 3) Users can click on the “***SUBMIT***” button when they finish to fill up all data, then the application will send the stored data to the server.

Main Feature — Locate Feature



DESCRIPTION

- 1) Users can search for a ***brand name*** to find a store location that has this brand. For example, users input ***“Adelaide”*** on the search view.
- 2) Users also can select a searching area such as ***1km, 5km, 10km or 20km***.
- 3) The ***result*** will be displayed on the map, users can click the “***red mark*** to view the location.
- 4) The ***distance*** between the store and the user’s current location will be shown in the list view.
- 5) Users can click the “+” button to report a store where they found this brand. The application will direct users to the report page.



Application

Server

- Login and register request;
- Check database request;
- Send statistics request;

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- **Languages:** Node JS & Express
- **Software:** WebStorm or IntelliJ
- **Database:** MongoDB

Kinder Food Finder - Server Site

[Login](#)[Forgot Password](#)

[KINDER FOOD FINDER](#)[RESET ACCOUNT](#)[LOGOUT](#)

CONTROL PANEL

[Report](#)[Import/ Insert Data](#)[Update/ Delete Brand](#)[Update/ Delete Store](#)[Publish](#)

Statistics

BRAND STATISTICS

Guideline: This function enables the admin to export a csv file contains statistical data collected from the end-users

Timeline (*)

 All Period

Choose brand

Gender

10 MOST SEARCHED BRANDS

1. Adelaide Eggs Cage - total searches: 7
2. Good Lookin Googees - total searches: 3
3. Game Farm Spatchcock - total searches: 2
4. Aussie Pride Multi Grain Eggs Cage Laid - total searches: 2
5. IGA Signature Cage Free Eggs - total searches: 2
6. Campbell's Real Stock - total searches: 1
7. Walker Farm Foods - total searches: 1
8. Emperors Pork - total searches: 1
9. Organigrow Organic Free Range Eggs - total searches: 1
10. Value Eggs Fresh Caged Eggs - total searches: 1

5 Main Features

- **Statistic**
- **Report**
- **Import & Insert Data**
- **Update & Delete Brand/Store**
- **Publish**

DESCRIPTION**Statistics****BRAND STATISTICS**

Guideline: This function enables the admin to export a csv file contains statistical data collected from the end-users

1 Timeline (*)
 All
 Period

2 Choose brand
 All

3 Gender
 All

4 Generate csv file

5 Reset

- 1) Admin can **select the timeline** of brand statistics for csv file generation, and the timeline can be all or a period that has start date and end date.
- 2) Admin can choose the statistics of **all brands** or **a certain brand**.
- 3) The statistics can also be **filtered with the gender of app users** who produced them.
- 4) The “**Generate csv file**” button is clicked to download csv file of statistics with the conditions chosen above.
- 5) The “**Reset**” button is clicked to reset the filters above to be default.

Main Feature – Statistic (2/2)

10 MOST SEARCHED BRANDS

1. Adelaide Eggs Cage - total searches: 7
2. Good Lookin Googeess - total searches: 3
3. Game Farm Spatchcock - total searches: 2
4. Aussie Pride Multi Grain Eggs Cage Laid - total searches: 2
5. IGA Signature Cage Free Eggs - total searches: 2
6. Campbell's Real Stock - total searches: 1
7. Walker Farm Foods - total searches: 1
8. Emperors Pork - total searches: 1
9. Organigrow Organic Free Range Eggs - total searches: 1
10. Value Eggs Fresh Caged Eggs - total searches: 1

DESCRIPTION

- 1) This is to show the **name of brand**.
- 2) This is to show **the total number of searches** by app users on this brand.

Main Feature – Report (1/3)

Reported stores and brands from users (Waiting for approval from the admin)

Reports

Brand Name	Store Name	Address	Email	Delete	Add report
Adelaide Eggs Cage	Wolfe testing	sssss,2008, NSW	blockboard08@yahoo.com.tw	<input checked="" type="checkbox"/> 1	Add report 3
Adelaide Eggs Cage	test	10 bat st,2007, NSW	www	<input checked="" type="checkbox"/>	Add report
NC Griggs & Co	goodStore	333 George st,2034, NSW	aaa	<input type="checkbox"/>	Add report
Shady Waters	7-11	33 Glebe st,2008, NSW	aaa	<input type="checkbox"/>	Add report
Compass Group	Starbucks	343 George st,2044, NSW	test@test.com	<input type="checkbox"/>	Add report
Australian Pastured Pork	Burnings	40 king st,2022, NSW	test@test.com	<input type="checkbox"/>	Add report
Brand Name	Store Name	Address	Email	Delete	Add report

Show 25 Search a store name...

Showing 6 of 6 1

Main Feature – Report (2/3)

Reports

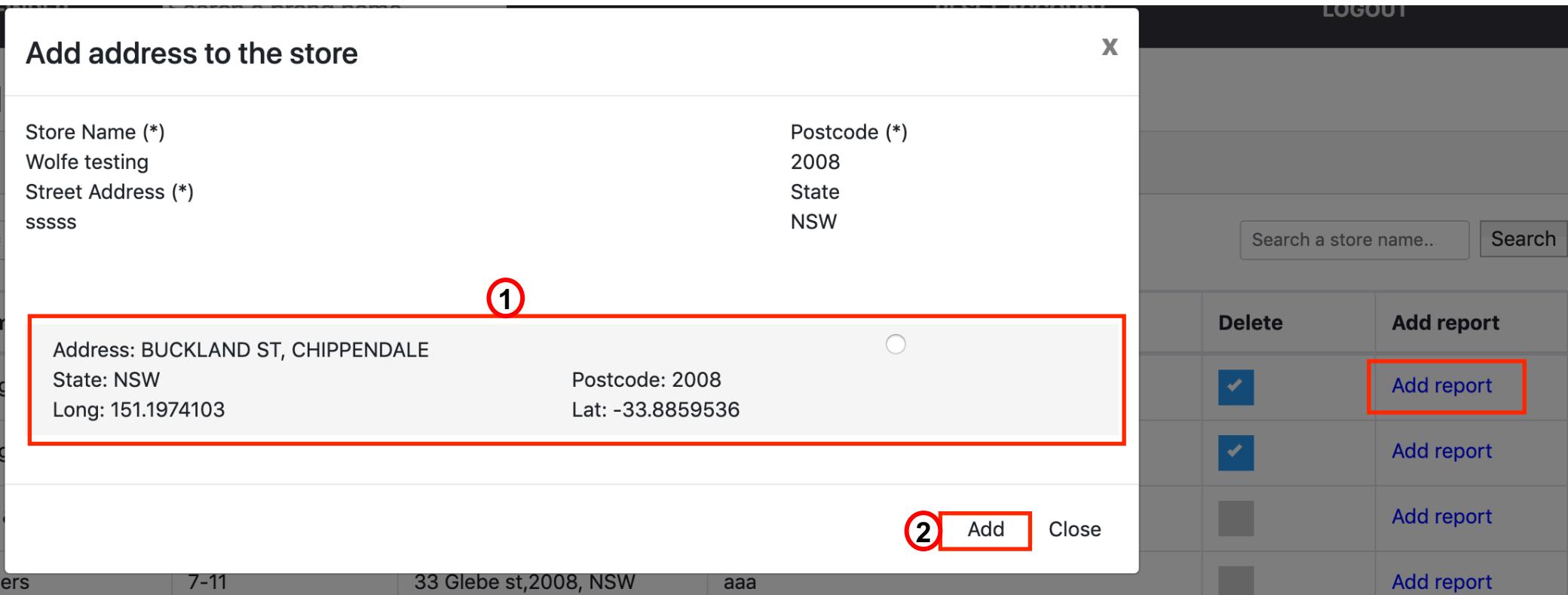
Show 25	<input type="checkbox"/> Select All	
Brand Name	Store Name	Address
Adelaide Eggs Cage	Wolfe testing	sssss,2008, NSW
Adelaide Eggs Cage	test	10 bat st,2007, NS\

Email		Add report
blockboard08@yahoo.com.tw	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
www		
aaa		
aaa		

DESCRIPTION

- 1) Admin can select single report to be deleted.
- 2) Or delete all of the reports once by "Select All".
- 3) The reported store can be added into database after approval by clicking on "Add report".

Main Feature – Report (3/3)



DESCRIPTION

- 1) Some **optimized addresses** will be given based on the reported address of store.
- 2) The “**Add**” button is clicked to store the reports into database with the address.

Main Feature – Import & Insert Data (1/2)

Import/ Insert Data

Which data do you want to import

- Select
- Brand
- Store

1

Import/ Insert Brand Data

IMPORT CSV FILE

Guideline: This function enables the admin to upload a csv file to the database which contains multiple brand data; Hence, the data imported will be recorded in the database.

Choose file No file chosen

2

Upload File

3

DESCRIPTION

- 1) Admin can select which kind of data that will be imported – “**Brand or Store**”.
- 2) Admin can choose the csv file on own computer while importing csv file.
- 3) The “**Upload File**” button is clicked to upload the csv file and **store every row of data into database**.

Main Feature – Import & Insert Data (2/2)

INSERT NEW BRAND

Guideline: This function enables the admin to insert a new brand to the database. Likewise, only one accreditation should be recorded at this stage. If the admin wants to input more accreditation to a brand, please access the "Accreditation" tab in the "Detail Brand Page" (Update/Delete Brand > Detail Brand > Accreditation).

1

Enter a Brand Name (*)

Please enter the brand name...

Category (*)

Choose or type a category

Choose an image for this brand

Choose file No file chosen

Accreditation (*)

Please enter the Accreditation...

Rating (*)

Choose or type a rating

Submit

Reset

2

3

DESCRIPTION

- 1) Admin can **manually** insert a brand into database by providing **brand name, category, image (optional), accreditation, and rating**.
- 2) The "**Submit**" button is clicked to submit the brand created manually by Admin and store it into database.
- 3) The "**Reset**" button is clicked to reset all the values that have been given in the text bar.

Main Feature – Update & Delete Brand/Store (1/6)

Update/ Delete Data

Brand

Show 25 Select All

Search a brand....

Search

Brand Name	↑↓	Accreditation	↑↓	Category	↑↓	Delete
Adelaide Eggs Cage	clicked	Cage, Caged - Avoid		egg		<input type="button" value=""/>
Aussie Pride Multi Grain Eggs Cage Laid		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Black & Gold Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Budget Mixed Grade Cage eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Country Farmhouse Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Country House Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Days Eggs Country Fresh Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Farm Fresh Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>
Country Classics Cage Eggs		Cage, Caged - Avoid		egg		<input type="button" value=""/>

Main Feature – Update & Delete Brand/Store (2/6)

Adelaide Eggs Cage

Brand Summary

Accreditation

Store

Brand name Adelaide Eggs Cage

Category egg

Image Choose file No file chosen

1 Accreditations for this brand

6 Stores have this brand



① [Edit](#)

② [Edit](#)

DESCRIPTION

- 1) Admin can edit the brand name and category.
- 2) Admin can add image to the brand or replace the original one.

Main Feature – Update & Delete Brand/Store (3/6)

The screenshot shows a web application interface for managing brand accreditations. At the top, there's a search bar with placeholder text "Please enter the Accreditation ..." and a "SEARCH" button. Below the search bar, there are two buttons: "Select All" and a red-bordered "Add" button with a circled "1" next to it. A table lists accreditations and ratings. The first row shows "Cage, Caged" with a rating of "Avoid". The second row is partially visible. At the bottom, there are navigation buttons for "Previous", a blue-highlighted "1", and "Next".

Accreditation	Rating
Cage, Caged	Avoid
Accreditation	Rating

DESCRIPTION

- 1) Admin can **add more accreditations** into this brand.
- 2) The “**Edit**” button is clicked to edit the accreditation.

Main Feature – Update & Delete Brand/Store (4/6)

Adelaide Eggs Cage

Brand Summary

Accreditation

Store

Please enter the store name . . .

SEARCH

Select All

Store name	Address
Coles	Bay Street, Ultimo, 2007, NSW
Coles Broadway	Bay Street, Ultimo, 2007, NSW
ALDI Broadway	1 Bay Street, Ultimo, 2007, NSW
Woolworth	8 CENTRAL PARK AV, CHIPPENDALE, 2008, NSW
Coles World Square	George Street, Haymarket, 2000, NSW
Grocer King Street	40 KING ST, NEWTOWN, 2042, NSW

Store name Address

Previous 1 Next

Main Feature – Update & Delete Brand/Store (5/6)

Coles Broadway

Store Summary	Store name	1	1
Address	Coles Broadway	address(es) for this store	Edit
	1		
	3	brand(s) in this store	

DESCRIPTION

- 1) Admin can **edit** the store name again.

Main Feature – Update & Delete Brand/Store (6/6)

Coles Broadway

Store Summary

Address

Please enter the address ... SEARCH

Select All +
1

Address	State	PostCode	Lat	Long	Number of brands	Add Brand
Bay Street, Ultimo	NSW	2007	-33.8833075	151.194942	3	2 Add brand
Address	State	PostCode	Lat	Long	Number of brands	Add Brand

Previous 1 Next

DESCRIPTION

- 1) Admin can **add more addresses** into this store.
- 2) The “**Add brand**” button is clicked to **add more brands** into this store.

Publish/ Release New Data

Which data do you want to publish the new version to the app

- Select
- Brand
- Store

1

Publish/ Release Brand Data

PUBLISH NEW DATA

Guideline: This function enables the admin to publish the new version of data to the app; Thus, the data will be updated while the app detects there's newer version on server.

Brand:

2

Version: 2

3

DESCRIPTION

- 1) Admin can select **brand** or **store** to publish the new version of database.
- 2) The “**Publish**” button is clicked to make the version plus one.
- 3) The ”**Version**” shows the current version of **brand** or **store database**.

- **Reset the Admin account**
- **Forgot password**

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4 LIMITATION & DISCUSSION

4 Main Limitations

Due to the time constraint of this project, there are still **Limitations** required to be improved.

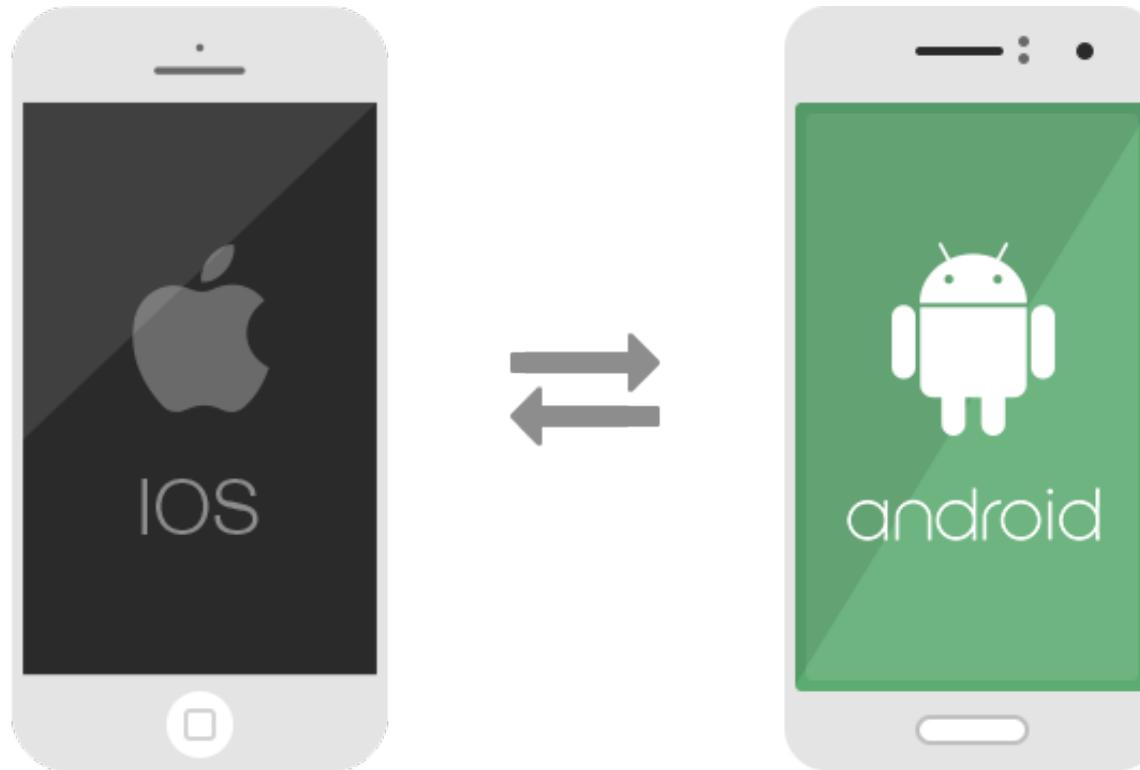
- **Only for Android Operating System**
- **Update User Profile after Sign Up**
- **Import CSV File for store data**
- **Unreliable Sourcing Data**

4 LIMITATION & DISCUSSION

Limitation – Only for Android Operating System

Our app **COULD NOT** reach to IOS users and collect data from them.

Future – Need to implement the app in iOS system.



4 LIMITATION & DISCUSSION

Limitation – Update User Profile after Sign Up

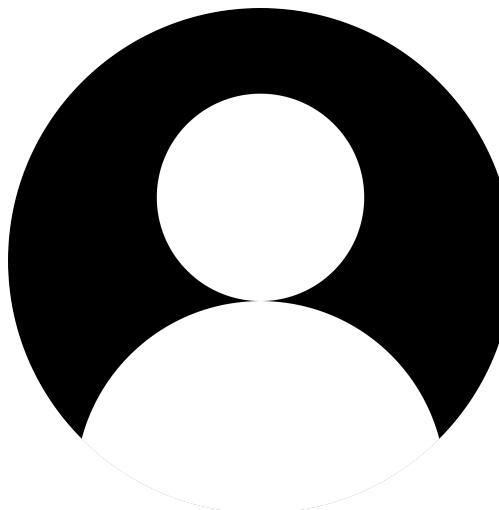
The app **CANNOT** allow users to modify their profile after registration.

Future - Enhancing user experiences.

Modify the **Age**

Modify the **Birthday**

Make Account **Email Confirmation**



4 LIMITATION & DISCUSSION

Limitation – Import CSV file for store data

In the Server-side, the Admin **CANNOT** import multiple store data at a time to the database. Although developing this feature was considered, the complexity of this function discourages the team from completing it.

Future – Implementing the “Import CSV file” feature for stores in the Server.

Limitation – Unreliable Sourcing Data

The reported store data from app users **MIGHT NOT** be reliable and now only the Admin can justify whether the data is reliable or not.

Future – Adding the counts for reported store data from app users.

For Example, an app user reports a brand called “Adelaide eggs” which could be purchased in Coles Burwood and the Admin agrees with this data. The system will record this report with a “count” of one. Then the mobile app’s interface should be modified to display the total “count” of each piece of data.

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- Deliverables of the project: Mobile application and Web-page server.
- By providing an information channel about animal-welfare the project helps close the consumers' intention and behaviour gap.
- Assist the client in collecting statistics for further research.
- Next step:
 - The client will deploy the system with the manual and source code.
 - The project team will assist and resolve issues if any.

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Kinder Food Finder System Architecture

Kinder Food Finder system consists of two important parts: (1) Mobile application and (2) Web-page server

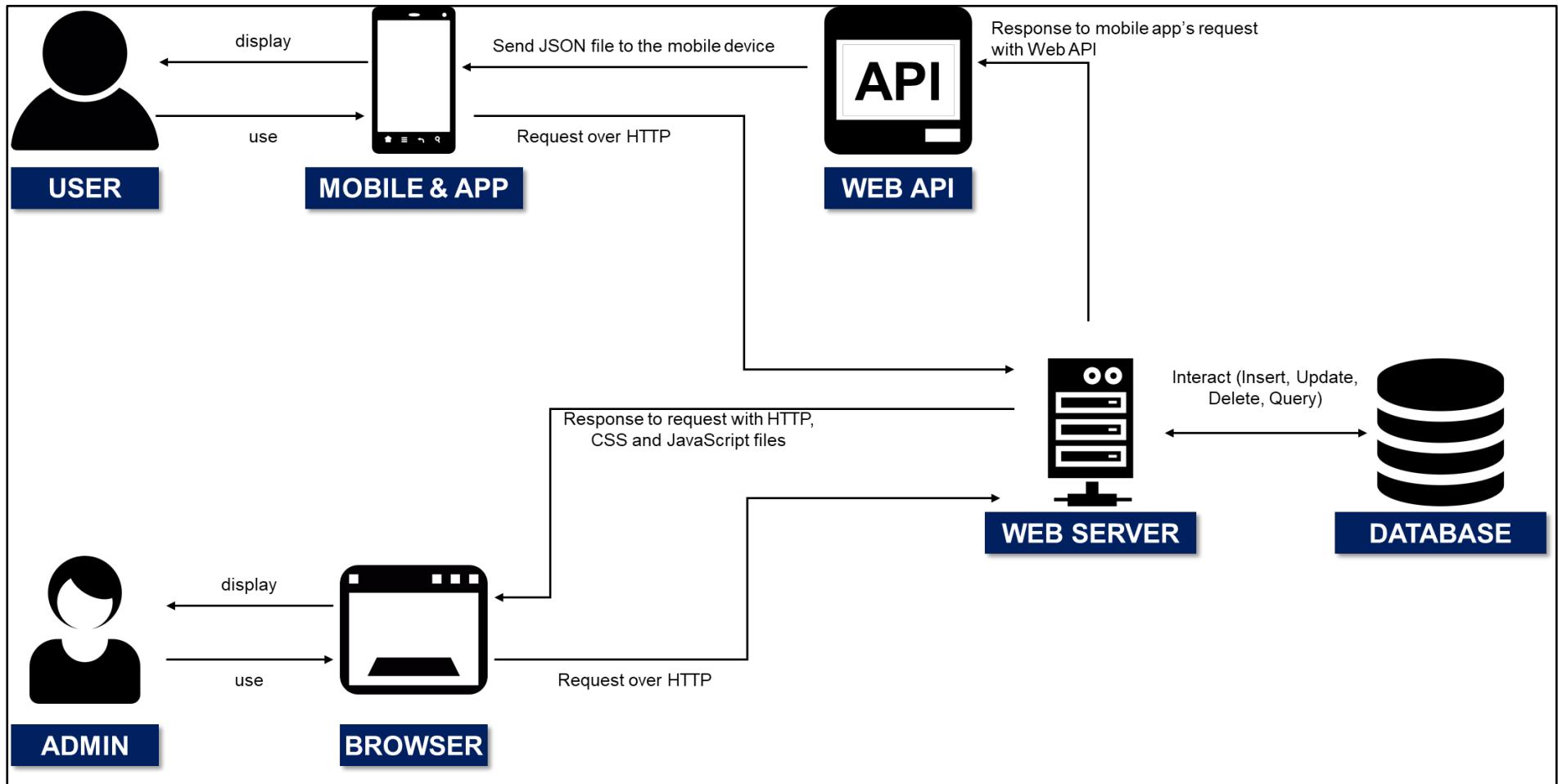


Figure 1. Architecture of the system

Thank You

ANY
QUESTIONS?