**BetaBox Database**

**Entities:**

1. User: userID, name, address, phoneNumber, gender, birthday, expertise, email, password, securityQuestion, securityAnswer, paymentOption, paymentInfo, dateEnrolled;
2. Company: companyID, logo, description, website, facebook, twitter, instagram ;
3. Product: productID, name, logo, productPics, shortDescription, detailedDescription, website, facebook, twitter, instagram, associatedCategories;

**Relations:**   
Rate <User, Product> M: N, Partial: Partial; **date**, **duration**, **rating**.

Share <User, Product> M: N, Partial: Partial; **date**, **duration**, **sharedVia**.

Own <Company, Product> 1: N, Total: Total.

Rate <User, Product> M: N, Partial: Partial; **distributionDate**.

**Definitions:**

User: The person using the app to rate and share prototypes.

Company: The entrepreneur who is producing the product.

Product: The prototype produced by a company to be rated and shared by the users.

**Database Tables:**

User: A table containing each user who signed up to the database with all their information with a userID as the primary element.

Company: A table containing each company’s information with a companyID as the primary element.

Company: A table containing each Product’s information with a productID as the primary element.

Rate: A table containing the userID and productID for each rating instance in addition to the rate they gave, the date and time in which the user rated the product and the duration they spent until they did.

Share: A table containing the userID and productID for each share instance in addition to which platform it was shared in, the date and time in which the user shared the product and the duration they spent until they did.

Own: A table linking each productID to the companyID that is associated with it.

Provide: A table linking each userID with the productID provided to them.

**App Inquiries:**

Sign in: Validating <email> and <password> with the data in the database to provide access.

Sign up:

1. Validate that the <email> and <email> aren’t in the database.
2. Create a new <user>.

Password Recovery:

1. Recover by email:
   1. Validate that the <email> is in the database
2. Recover by answering Security Question:
   1. Validate that the <email> is in the database
   2. Validate the chosen < securityQuestion>
   3. Validate the chosen < securityAnswer>
   4. Update the database with the new <password> for the provided <email>.

Home Page:

1. Provide the last set of <products> provided to the user based on the <distributionDate>.
2. For each product, provide the <productID>, <name>, <logo>, and < shortDescription>.
3. Provide lists of the products <rated> and <shared> by the <user> for filtering purposes.

Achieve Page:

1. Provide a list all products provided to the user in the <provide> table based on the provided <userID>.
2. For each product, provide the <productID>, <name>, <logo>, and < shortDescription>.
3. Provide lists of the products <rated> and <shared> by the <user> for filtering purposes.

Settings Page (Profile):

1. Provide all <user> information that the user is allowed to edit.
2. If an item is edited: update database with the new update.

Product Page:

1. Provide all <product> information based on the provided <productID>.
2. Provide the <companyID> that <Owns> this product and all its <name> and <logo>.

Company Page:

1. Provide all <company> information based on the provided <companyID>.
2. Provide a list of all <productIDs> that are <Owned> by the provided <companyID>.
3. Provide each <productID>’s <name>, <logo>, and < shortDescription>.

Rate: update the <Rate> table with the <rating>, <date>, and <duration>.

Share: update the <Share> table with the <sharedVia>, <date>, and <duration>.

**Website Inquiries:**

**Assumptions:**

* A user object is created when a person signs up for the service. The user’s database fields are filled by them upon registration.
* A company object is created by the database administrator before the prototypes are distributed.
* The database fields for the company and product will have to be populated by the business administration in order to ensure accurate and correct information.
* A user could rate the same product only once, but each product could be rated by a lot of users and each user could rate as many products as they wish.
* A user could share a product any number of times, on as many platforms as they wish.
* Each company must own at least one product to be in the database.
* Each Product must be owned by one company and one company only.
* The Filtering and sorting process would be done through mobile/website algorithm instead of through the database in order to provide the functions if the connection terminated.

