My Home Slice: Database Re-Design

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My Home Slice: Database Design

My Home Slice web application will utilize a document database called MongoDB. MongoDB stores data in JSON-Like documents. Mongo allows flexible and dynamic schemas and powerful query language. MongoDB is easy to get started, and it works very well with JavaScript. Mongo is also a popular database that results in a strong community of developers providing support documentation for Mongo. However, the main reason for using Mongo in the My Home Slice project is that it is commonly used with Node, Express, and Mongoose, which will be used to build the My Home Slice web application. Mongoose will model out the application data and define schemas for the My Home Slice database.

The Items highlighted in yellow are the stretch feature items.

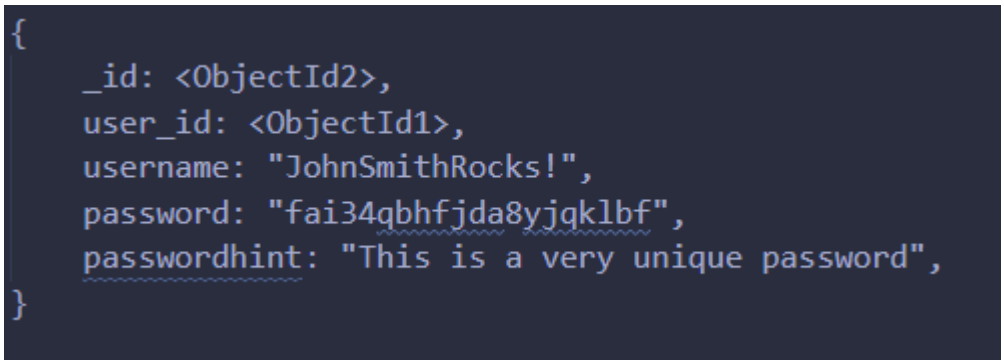
Database Data Types

User Account Information Document

Data	Data Type	Function
_id	ObjectId	Unique user account identifier
userfirstname	string	First Name of user
usepassrlastname	string	Last name of user
userphone	number	Phone number for contact information and communication uses
useremail	string	Email address for for contact information and communication uses

User Account Security Information Document

Data	Data Type	Function
_id	ObjectId	Unique security identifier
username	string	Unique username for account sign in
password	string	Unique password for account sign in
passwordhint	string	Password hint reminder
user_id	User_ObjectId	Unique user account key identifier



User Recipes Document

Data	Data Type	Function
_id	ObjectId	Unique recipe identifier
user_id	User_objectId	Unique user id key identifier
recipename	string	Name of recipe
shortdiscription	string	Short description of the recipe
servings	number	Serving size
cook time	string	Time needed to cook recipe
Ingredients	String array	List on ingredients needed to cook recipe
directions	String array	Directions to cook recipe
notes	string	Notes that the user can add
featuredfoodpic	String URL	Featured food picture for the recipe
foodcategory**	string	Help query recipe based on category

**foodcategory is part of the stretch feature that will be used for the search feature in the navigation bar. Even though it is not part of the MVP it is easy to add the foodcategory already to the User Recipes Document.

```
{
    _id:<ObjectId3>,
    user_id: <ObjectId1>,
    recipename: "Apple Turnovers",
    shortdiscription: "This is an easy yummy warm recipe dessert",
    servingsize: 10,
    cookingtime: "1 hr"
    Ingredients: ["4 apples", "1 lemon", "2 sheets of puff pastry", "2 sticks of butter"],
    Directions:["peal apples", "drain apples"],
    notes: "This is a great recipe and a fav among the family!",
    featuredfoodpic: "urllink",
    foodcategory: ["Dessert", "apples"]
}
```

Photo Gallery

Photo Gallery is a stretch feature

Data	Data Type	Function
_id	ObjectId	Unique picture Identifier
user_id	User_onjectId	Unique user id key identifier
picturename	String	Name of picture
picturedescription	String	Short description of picture
picturelink	String URL	Food picture for gallery

```
{
    _id:<ObjectId4>,
    user_id: <ObjectId1>,
    picturename: "Spaghetti and Meatballs",
    picturedescription:"This is the best Spaghetti and Meatballs!",
    picturelink: "urllink"
}
```