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# Grocery List App

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# Link to Demo

Video:

[https://github.com/peemin/csci5448/blob/master/GroceryListApp\\_Video.swf](https://github.com/peemin/csci5448/blob/master/GroceryListApp_Video.swf)

Link to website:

<https://grocerylist.herokuapp.com/>

# What we did

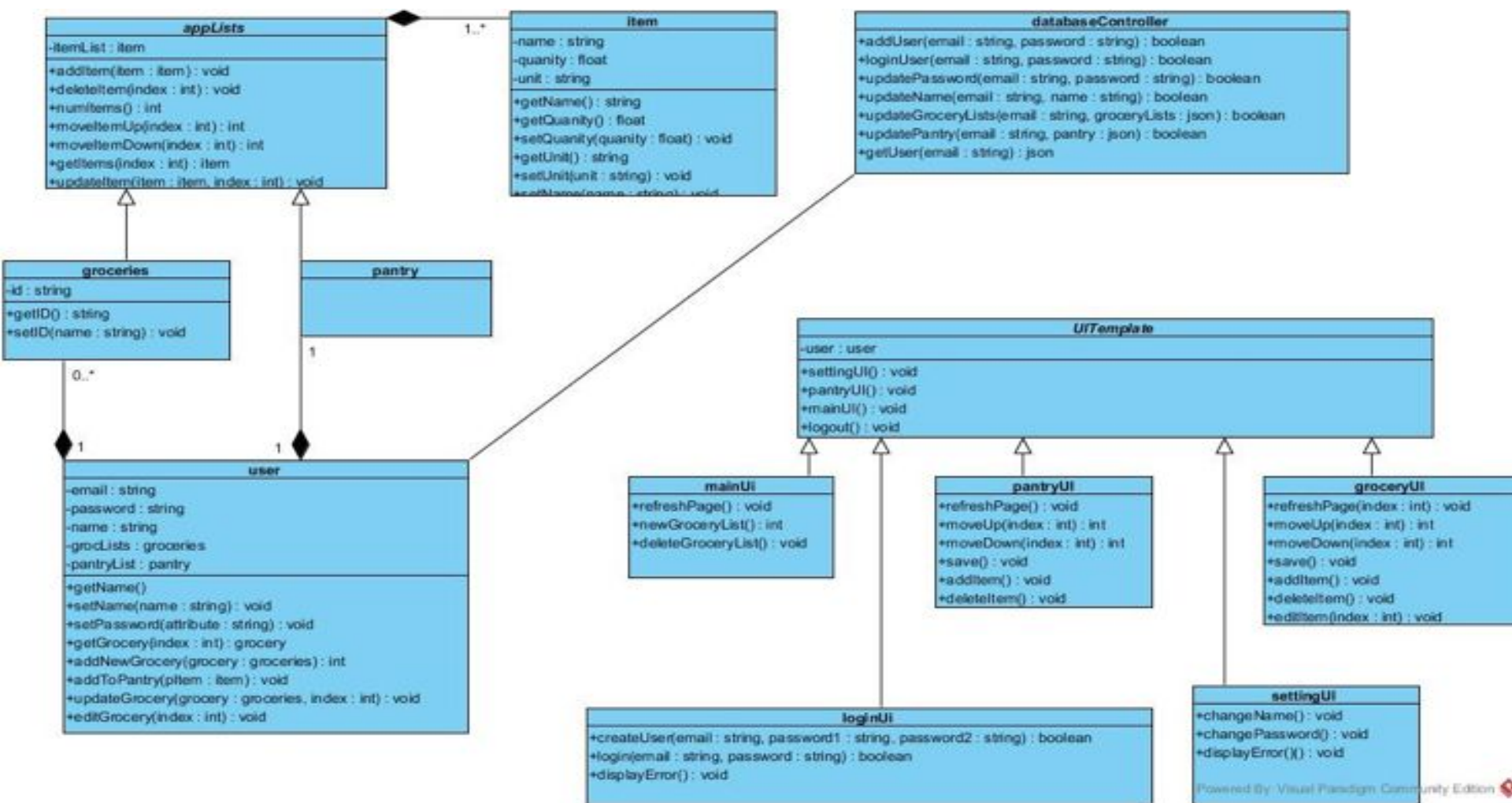
- Created a grocery list website app that lets users create digital shopping lists
  - Lists are attached to user by their sign in credentials
    - User can create multiple lists
    - Delete lists
    - Each list can contain 1 or many items

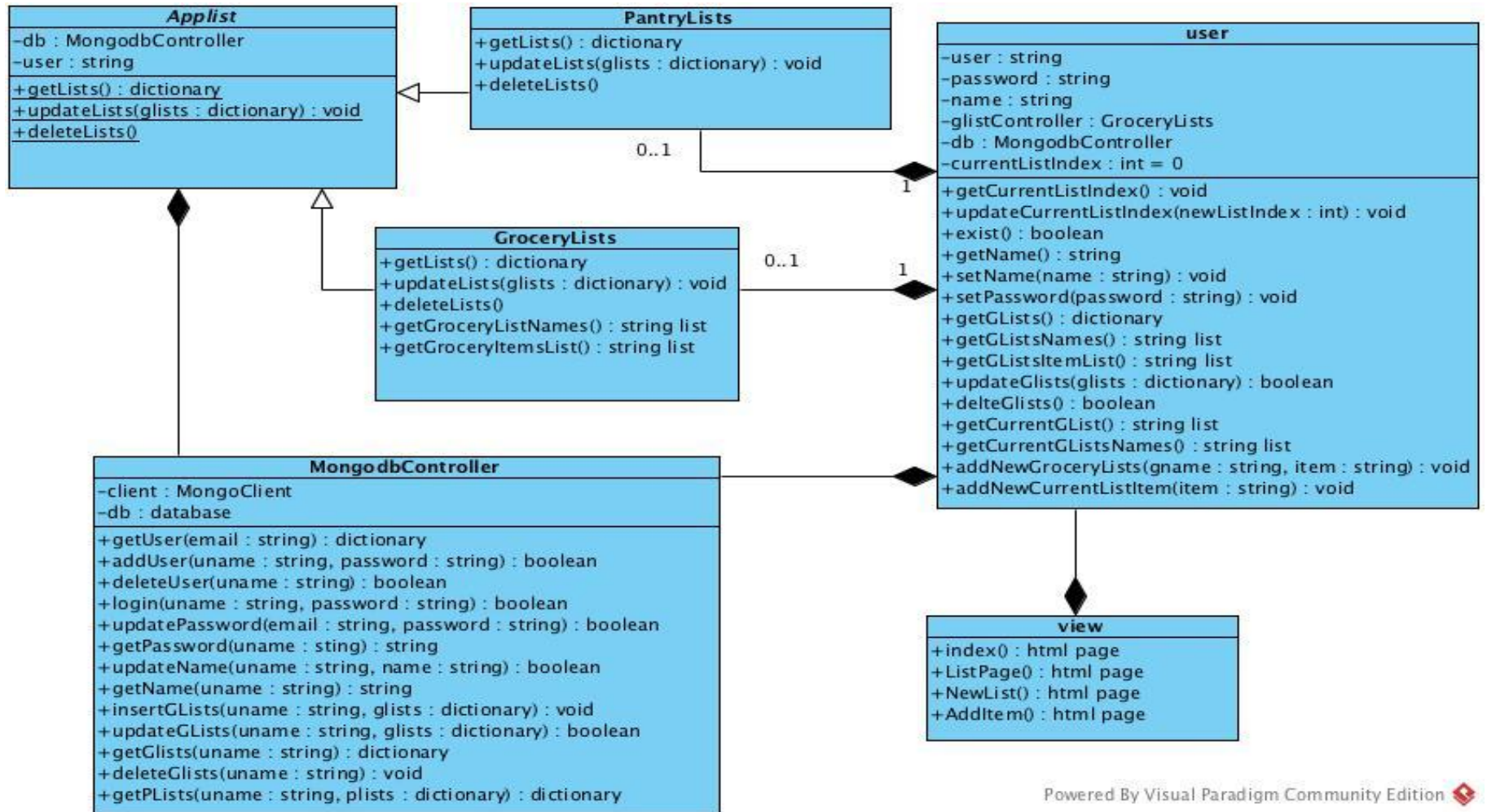
# Demo

- Front End
  - Flask
    - Python microframework that handles html web pages
  - Jinja2
    - Provides Python-like expressions for html to dynamically render web pages
  - HTML/CSS/Javascript
    - Makes things look pretty!
- Back End
  - MongoDB
  - Object-oriented Python
- Link - <http://grocerylist.herokuapp.com/index.html>

# Design Structure

- MVC - Model View Controller Architecture
  - Model
    - MongoClient Class
  - Controller
    - User Class - the main communication between the view and the database.
    - Future implementations would implement the observer model to allow multiple users to shopping lists
  - View
    - Flask
    - Future implementation could use the Composite pattern





# Conclusion

- What we accomplished
  - MVC architecture using MongoDB
  - Can add many grocery lists
  - Delete lists
  - Add items to individual lists
- Future Iteration
  - Handling log in of multiple users
  - Delete one or many items from individual lists
  - Implement Settings page
  - Implement Pantry
  - Refine look and feel of site
  - Convert website to mobile app