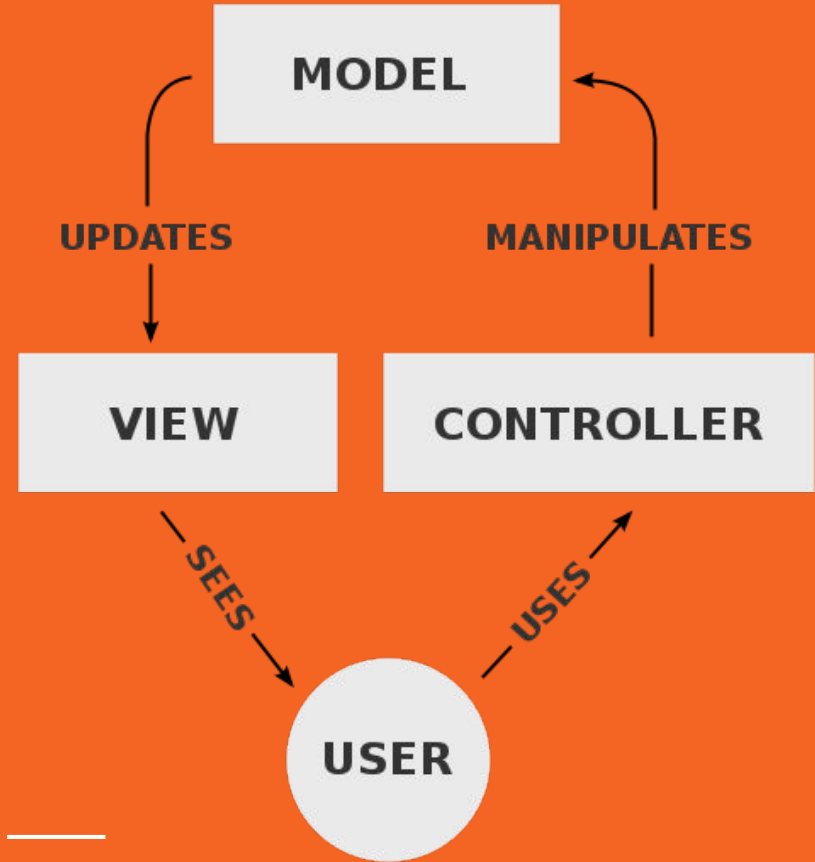

ECSE 223 Final Project

The Resto

Application

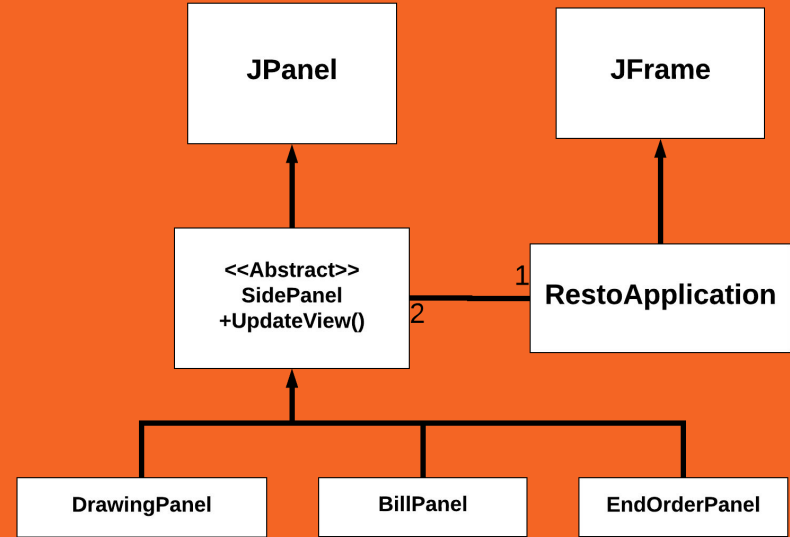
Carl El Khoury, Elias Al Homsy , Hani Damlaj,
Marie Vu, Mia Zhou, Max Brodeur,

Software Architecture

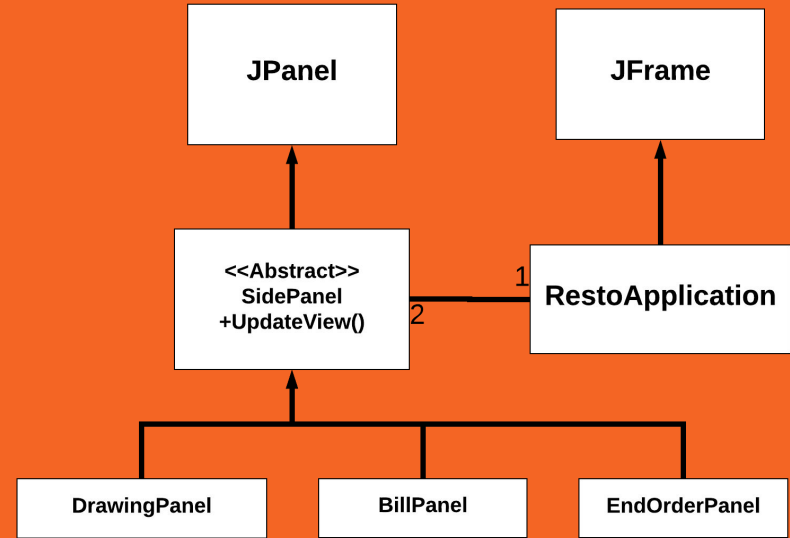


The UI Design

- The Frame is split in half
- Displaying 2 Side Panels
- Modular and easily extensible
- View Objects are created
TableView



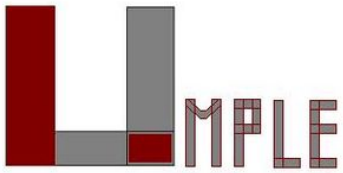
- The RestoApplication class creates instances of the panels.
- Requests are made to this class to update and display specific Panels.
- All side Panels communicate and use the Controller to access the data



Unique Features

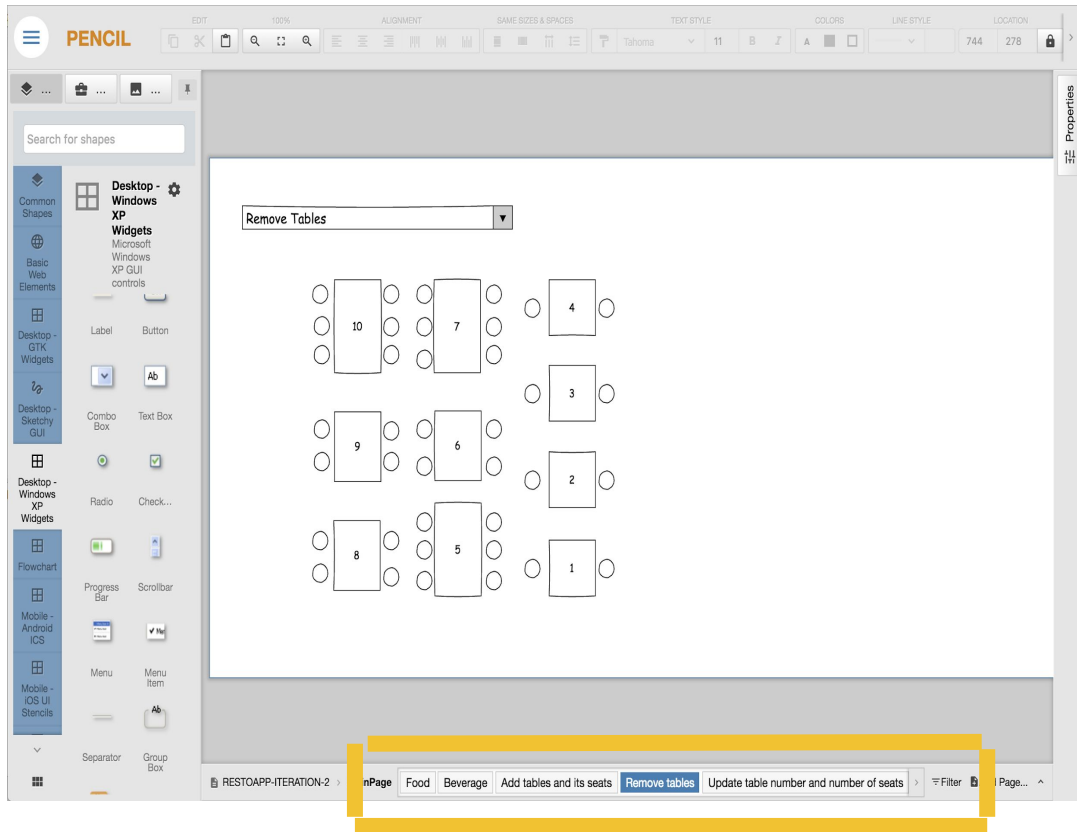
- **Real time** update that checks reservations and updates tables
- **Auto Reservation** which allows the waiter to find the next available table that fits the customer
- **Loyalty Card** which customers can use to store cashback value
- **Automatic Seats Placement** finds the best way to distribute seats around a table.
- **Email and phone validation**

Design



Development



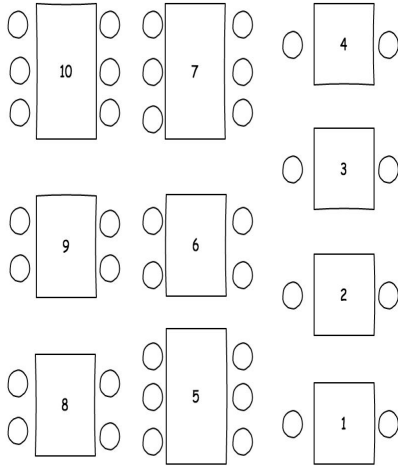


- Used pre-existing images and buttons from Pencil.
- Common font and widget selection for uniform feel.
- Each Team member edited a specific tab (highlighted at bottom)
- Tabs we're combined at the end and submitted.

Pencil for UI Mockups

Mockup

Add tables and its seats ▼



Parameters for New Table

Dimensions

Position

Add

Reality

Parameters of New Table

Number of Seats:

Table ID Number:

Width:

Length:

X Position:

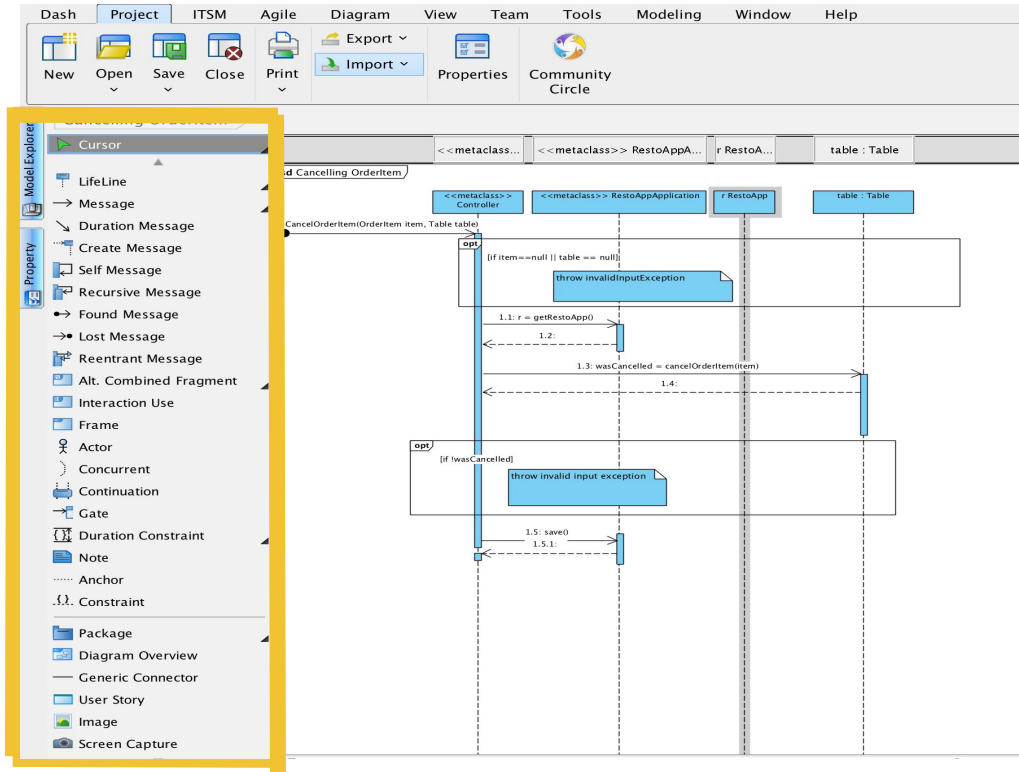
Y Position:

Back

Clear

Add

Visual Paradigm



- Best software we could find for free.
- Took some getting used to.
- Simple drag and drop sequence diagram design.

ORGANIZATION



Messenger



**Schulich
5th Floor**

1 Features Required for Iteration 2 and 3

- ① • Add a table and its seats to the restaurant **Max**
- ② • Remove a table from the restaurant **Hani**
- ③ • Update the table number and number of seats of a table **Carl**
- ④ • Change the location of a table **Elias**
- ⑤ • Display the menu according to food/beverage categories (includes loading the menu from a file and saving all data required for all features to a file) **Jux + Marté**

3 Features Required for Iteration 6 and 7

- ① • Update a menu item (includes adding a new one or removing an existing one) **MARIE**
- ② • Order item from menu for a customer at a table (it is possible to split a menu item between several customers) **ELIAS**
- ③ • Cancel an ordered item or a whole order for a customer or table **MAX**
- ④ • View order for the customers of a table **HANI**
- ⑤ • Issue a bill for the whole table, for each customer at a table, for each arbitrary group of customers at a table, or for each arbitrary group of customers from different tables (assume that the prices for menu items already include taxes and that taxes do not need to be shown separately on the bill; as long as the table is in use, it must be possible to re-issue a bill with a different configuration (e.g., for the whole table instead of individually)) **CARL**
- ⑥ • Your new feature **MIA**

- Facebook Messenger to set up meeting times and coordinate GitHub pushing and Pulling.
- Facebook “Event Reminders”
- Met at Schulich to finalize every iteration.
- Random assignment of features.

Github

- Egit, GitHub Desktop

- Branches were created to facilitate merging and pushing/commit process

- Before merging or making a commit to master, we would check with others to confirm.

```
hanidamlaj@Hani-Damlaj: /mnt/c/Users/hanid/Desktop/git
hanidamlaj@Hani-Damlaj: /mnt/c/Users/hanid/Desktop/git$ git clone git@github.com:W2018-ECSE223/Group05.git
Cloning into 'Group05'...
The authenticity of host 'github.com (192.30.253.112)' can't be established.
RSA key fingerprint is
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'github.com,192.30.253.112' (RSA) to the list of known hosts.
Enter passphrase for key '/home/hanidamlaj/.ssh/id_rsa':
remote: Counting objects: 3358, done.
remote: Compressing objects: 100% (922/922), done.
remote: Total 3358 (delta 1041), reused 1206 (delta 492), pack-reused 1464
Receiving objects: 100% (3358/3358), 11.64 MiB | 396.00 KiB/s, done.
Resolving deltas: 100% (1770/1770), done.
Checking connectivity... done.
hanidamlaj@Hani-Damlaj: /mnt/c/Users/hanid/Desktop/git$
```



<http://www.successlane.com.au/book-now>



<https://lankydanblog.com/2017/02/04/size-does-matter-in-java-fx/>

Lessons learned.

- Multiple controller Classes instead one.
- More face to face collaboration during brainstorming.
- /*More comments for group understanding.*/*
- Use JavaFx to facilitate UI layout design.
- Hands-On experience is invaluable.

DEMO!
