

Intro To SWE 3313

Section W05
Systems Designs Document

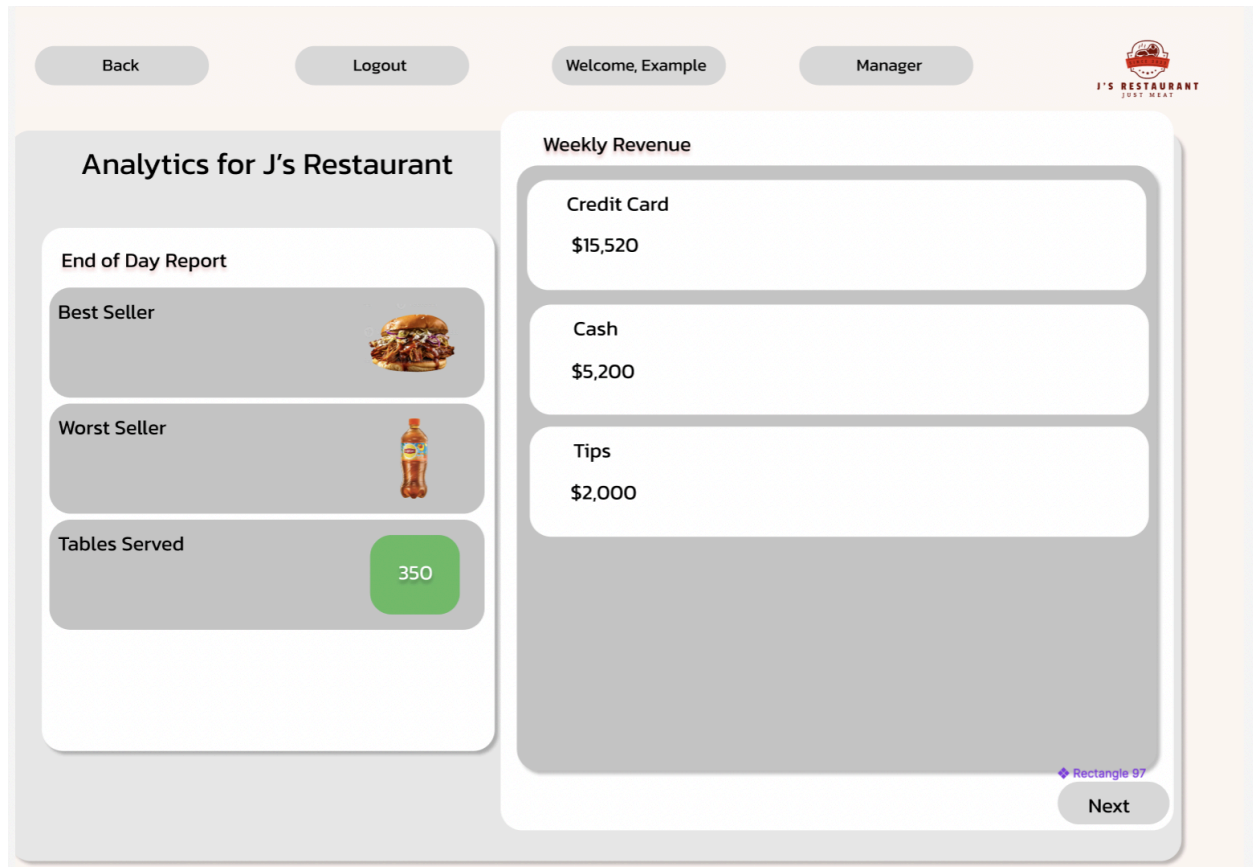
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THANK YOU!

Stats Page #1




Stats Page #2

Back

Logout

Welcome, Example

Manager



J'S RESTAURANT

JUST MEAT

By-Day-Breakdowns

Date	Avg. Turnaround Time	Avg. Preparation Time	Weekly Standings			
04-30-2024	1 hour	1 hour	Menu Item(s)	Standings	Generated Revenue	
05-01-2024	1 hour	1.5 hours			\$	%
05-02-2024	50 minutes	50 minutes	Pulled Pork	1	\$500	20
05-03-2024	1.5 hours	50 minutes	HouseMade Sausages	2	\$420	15
05-04-2024	2 hours	44 minutes	Coca Cola Soda	3	\$325	12
05-05-2024	46 minutes	55 minutes	Banana Pudding	4	\$300	10
05-06-2024	45 minutes	1 hour	Lipton Tea	5	\$120	5
			Menu Item(s)	Standings	Generated Revenue	
					\$	%
			Pulled Pork	1	\$500	20
			HouseMade Sausages	2	\$420	15
			Coca Cola Soda	3	\$325	12
			Mac & Cheese	4	\$200	10
			Coleslaw	5	\$50	5

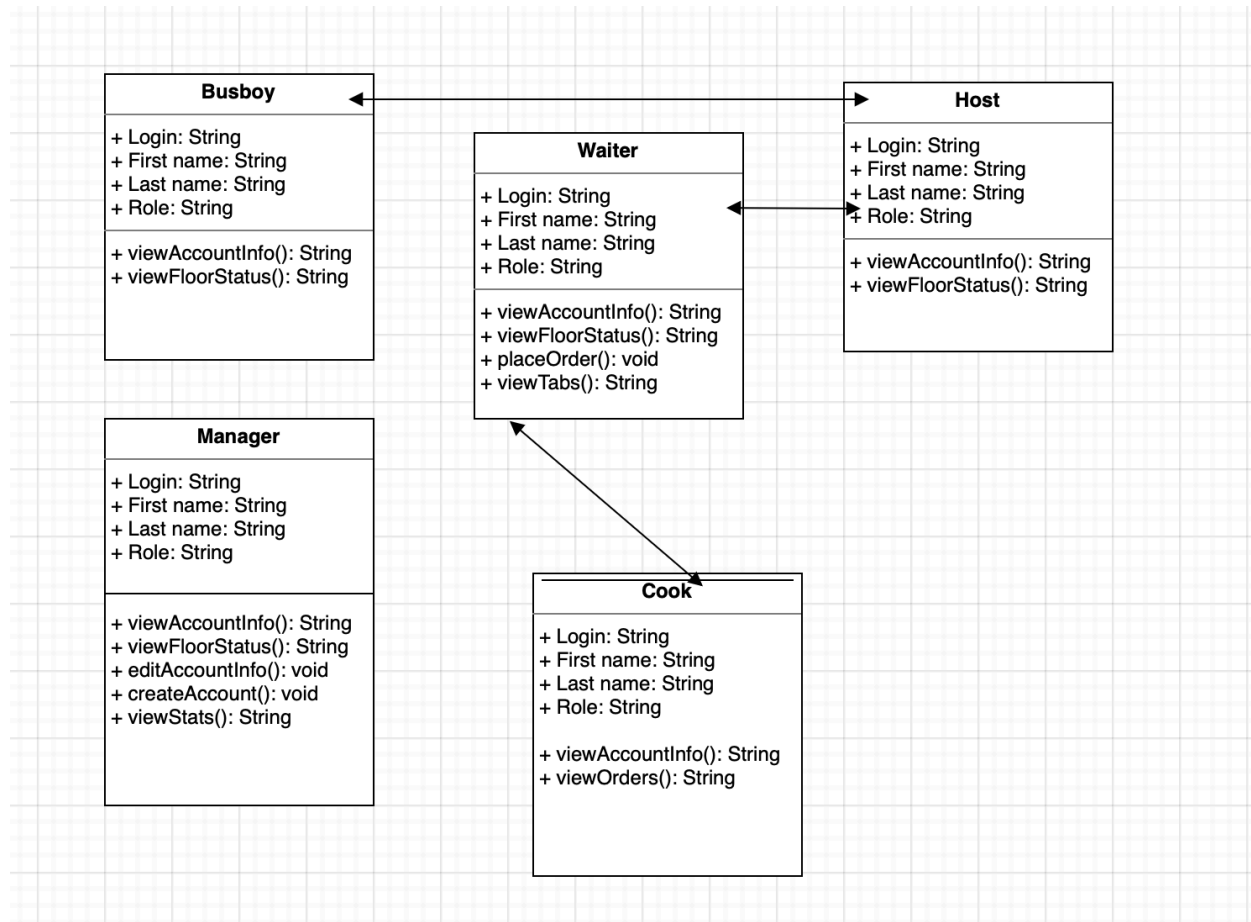
2. Screen layouts

Link to the layout flows:

[SWE3313-System Design Flow \(youtube.com\)](https://www.youtube.com/watch?v=SWE3313-System_Design_Flow)

Technical Design

1. Detailed Class diagrams



Cook

- First name: String
- Last name: String
- Login: String
-Role: String
+ viewAccountInfo(): String
+ viewOrders(): String

Busboy
- First name: String
- Last name: String
- Login: String
-Role: String
+ viewAccountInfo(): String
+ viewFloorStatus(): String

Waiter
<ul style="list-style-type: none">- First name: String- Last name: String- Login: String- Role: String
<ul style="list-style-type: none">+ viewAccountInfo(): String+ viewFloorStatus(): String+ placeOrders(): void+ viewTabs(): String

Host
<ul style="list-style-type: none">- First name: String- Last name: String- Login: String- Role: String

+ viewAccountInfo(): String

+ viewFloorStatus(): String

Manager

- First name : String

- Last name : String

- Login: String

- Role: String

+ viewAccountInfo(): String

+ viewFloorStatus(): String

+ editAccountInfo(): Void

+ createAccount(): Void

+ viewStats(): String

2. Supporting Text specification

Constructor	Description	
Waiter(String login, String firstName, String lastName)	This creates a new “Waiter” object for the class with the arguments of login information, first name, and last name defining the object.	
Field Summary		
Modifier and Type	Field	Description
String	First Name	The first name of the waiter.
String	Last Name	The last name of the waiter
String	Username	The username/login information of the waiter
String	Role	The role of the waiter: waiter
Method Summary		
Modifier and Type	Method	Description
String	viewAccountInfo()	This method accesses the information of the waiter and returns the first name, last name, and login information.
String	viewFloorStatus()	This method returns the current floor status of all tables in the restaurant.

Void	placeOrders()	This method allows the waiter to place an order requested by the customer(s) which will be sent to the kitchen.
String	viewTabs()	This method returns all the tabs for the waiter to see.

Constructor	Description	
Cook(String login, String firstName, String lastName)	This creates a new “Chef” object for the class with the arguments of login information, first name, and last name defining the object.	
Field Summary		
Modifier and Type	Field	Description
String	First Name	The first name of the Cook.
String	Last Name	The last name of the Cook.
String	Username	The username/login information of the Cook
String	Role	The role of the Cook: Cook
Method Summary		

Modifier and Type	Method	Description
String	viewAccountInfo()	This method accesses the information of the chef and returns the first name, last name, and login information.
String	viewOrders()	This method returns all the current orders for the chef to see.

Constructor	Description	
Busboy(String login, String firstName, String lastName)	This creates a new “Busboy” object for the class with the arguments of login information, first name, and last name defining the object.	
Field Summary		
Modifier and Type	Field	Description
String	First Name	The first name of the busboy.
String	Last Name	The last name of the busboy
String	Username	The username/login information of the busboy
String	Role	The role of the busboy: busboy

Method Summary		
Modifier and Type	Method	Description
String	viewAccountInfo()	This method accesses the information of the busboy and returns the first name, last name, and login information.
String	viewFloorStatus()	This method returns the current floor status of all tables in the restaurant.

Constructor	Description	
Manager(String login, String firstName, String lastName)	This creates a new “Waiter” object for the class with the arguments of login information, first name, and last name defining the object.	
Field Summary		
Modifier and Type	Field	Description
String	First Name	The first name of the Manager.
String	Last Name	The last name of the Manager.

String	Username	The username/login information of the Manager.
String	Role	The role of the Manager: Manager
Method Summary		
Modifier and Type	Method	Description
String	viewAccountInfo()	This method accesses the information of the manager and returns the first name, last name, and login information.
String	viewFloorStatus()	This method returns the current floor status of all tables in the restaurant.
Void	editAccountInfo()	This method allows the method to edit the information of existing accounts.
Void	creatAccountInfo()	This method allows the manager to create a new account.
String	viewStats()	This method allows the manager to view the statistics of the restaurant such as total sales, popular dishes, etc.

Constructor	Description	
Host(String login, String firstName, String lastName)	This creates a new “Host” object for the class with the arguments of login information, first name, and last name defining the object.	
Field Summary		
Modifier and Type	Field	Description
String	First Name	The first name of the Host.
String	Last Name	The last name of the Host.
String	Username	The username/login information of the Host
String	Role	The role of the Host: Host
Method Summary		
Modifier and Type	Method	Description
String	viewAccountInfo()	This method accesses the information of the host and returns the first name, last name, and login information.
String	viewFloorStatus()	This method returns the current floor status of all tables in the restaurant.

3. Database table descriptions

Customer:

Description: This table is for the customer. The customer can be identified by a unique CustomerID (primary key). Some attributes of a customer include their name and login credentials.

Column_Name	Type	Key	Required	Remarks
CustomerID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

Host:

Description: This table is for the host. The customer can be identified by a unique CustomerID (primary key). The primary attributes for this class include both a name, first and last and a login, both username and password.

Column_Name	Type	Key	Required	Remarks
HostID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

Busboy:

Description: This table is for the busboy. The busboy can be identified by a unique BusBoyID (primary key). Some attributes of a busboy include their name and login credentials

Column_Name	Type	Key	Required	Remarks
BusboyID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

Chef:

Description: This table is for the chef. The chef can be identified by a unique ChefID (primary key). Some attributes of a chef include their name and login credentials.

Column_Name	Type	Key	Required	Remarks
ChefID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

Manager:

Description: This table is for the manager. The manager can be identified by a unique ManagerID (primary key). The primary attributes for this class include both a name, first and last and a login, both username and password.

Column_Name	Type	Key	Required	Remarks
ManagerID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

Waiter:

Description: This table is for the waiter. The waiter can be identified by a unique WaiterID (primary key). The primary attributes for this class include both a name, first and last and a login, both username and password.

Column_Name	Type	Key	Required	Remarks
WaiterID	BigInt	Primary	Yes	
Name	varchar(50)	No	Yes	
Login	varchar(50)	No	Yes	

4. Technical Support specification

Training Approach/Materials:

The training materials provided to our employees will be digital. For each employee role, there will be different tasks or learning modules relevant to their role. The employee must complete their tasks during the training stage. For example, the cook will complete tasks relating to cooking recipes and the waiter will have tasks relating to courtesy/ethics. These learning modules are assigned to help the employees understand their roles and functions, know how to use the technology assigned to them, and more.

Installation Support:

There will be a step-by-step video tutorial of how to set up the system for each role. If there are any difficulties, a technical support system has been set up to contact for further assistance.

Onsite/Remote Assistance:

As previously mentioned, the support system and training materials will be provided online. Additionally, users can contact IT support during the restaurant's office hours. However, bear in mind that sometimes there may be a queue/long wait due to a large number of users accessing the system at once.

Updates:

The system will be updated as soon as bugs, issues, and glitches within the system have been discovered. When updates are ready to launch, the system should launch a notification informing users about the update and all the issues it intends to resolve.

Troubleshooting:

If there were an error that the user faces, there will be a message shown to the user so that they can look through the support system materials. If that approach does not resolve the issue, there will be a number for the user to call for further assistance.

Link to timesheet:

[https://docs.google.com/document/d/19gQdVWKrYEZs3342mp0YZ6Cl2Htgh0Na1XRR5Lpsid/
edit](https://docs.google.com/document/d/19gQdVWKrYEZs3342mp0YZ6Cl2Htgh0Na1XRR5Lpsid/edit)