



# **RMS Requirements Specification**

**Version 2.0**

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# Restaurant

*To learn and not to do is really not to learn.*

## **1. Executive Summary**

### **1.1 Project Overview**

In these days when technology has gone through huge steps, some of the everyday life jobs keep being very hard and tiring. One of them is the management of a restaurant. Some people can think of it as not a very big deal but not the ones who spend their lives dealing with it. Huge restaurants, with amazing views and menus do have service problems.

Waiters try to do their best but sometimes they are not capable to cover every table and please every client in time. At the end of day, they will be more tired than usually. So owners are bound to hire more waiters and spend more than what he earns. But the new restaurant management system will make everyone happy. The client will be able to order directly from the table right after sitting, by selecting their orders through a tablet found there. The order will be received as a message from the chef. After being prepared, orders will be served by the waiters. So waiters will be able to deliver the orders on time and have less work to do, the chefs will not have to read some pieces of papers stating the orders and get disorganized and manager will not have to hire many employees, and at the same time this system will be very elegant and interesting for clients too. At the same time, this will help a good part of youngers be employed and earn money so they will not be a burden to their families and will get better and professional to this branch of technology.

It is also important to mention that this will be a good step to advance more in technology and will be good for a country in development as the situation that we are facing in these moments.

### **1.2 Purpose and Scope of this Specification**

The purpose of this new method is to help the restaurant have a better management and at the same time make clients feel more pleased and come back at the same restaurant. With this method we think that the overall service will get better. Service getting better, the number of daily clients will increase so the incomes will go up at the same time. Also the managers will be able to control the incomes in a more efficient way because everything will be recorded by the system. The goal of our project that implements this new method is to create such a restaurant management system, which saves time to both customers and restaurant team. On the other hand it will help the restaurants run more efficiently than in the past.

These businesses are very effective in the economy of the state, so they will surely affect it too. So starting off with some of the restaurants as an experiment is believed to be very successful and helpful at the same time. Of course the targets are known and famous restaurants which will be able to afford this new technology. So the process will be slowly spread to other restaurants and other businesses that may embrace this new method. At the same time, this implementation might turn out to be a nicer way for the municipality to control the incomes of the restaurants that will apply this technology.

## **2. Product/Service Description**

In our country management of a business such as a restaurant and its services are not helping the situation get better. This product is an experimental decision taken by a group of students who had different meetings with some restaurant managers.

It will be firstly used by the three or four restaurants which will give stable and continuous information according to this new method.

RMS will be a platform in help of a specific restaurant. With this platform customers can order food easily and order's copy will go directly to the chefs and waiters. But it will also be used by other staff members such as the accountant, in order to track accounting information, such as different transactions made every month, insertion of salaries, communication with the contracted suppliers, management of products found in the restaurant, invoices etc.

All in all, RMS will help in these areas:

- Better service
- Easy management and income control
- Less hand - work
- Not tired employers

### **2.1 Product Context**

This is a software application designed to manage the activities within the restaurant itself but also to serve as a website for the customers to see the facilities this restaurant provides.

It is supposed that each table is going to have its own tablet from which the customers can select on the menu what they want. After the order is confirmed from the customer, the chefs will know and send a notification in the table's tablet that the order is being prepared. When the client's orders are ready, the waiters get a message to deliver them to the destination table. The users of this application which are listed below are going to communicate with each other through notifications or table contents. Each of them will be able to send a notification to the other members or perform actions in such a way that contents of the tables will be refreshed and updated.

### **2.2 User Characteristics**

This application can be accessed by all the members of the staff:

- Admin

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- Can check notifications
  - Hire/add employee
  - Add/delete tables
  - Add new items in the menu
  - See the whole list of products
  - Can see the whole list of employee and edit it
  - See all the orders
- 
- Accountant
    - Can see the list of notifications
    - Can see the list of whole products
    - Add/delete products
    - Can edit the salaries of the employees
    - Can see the list of suppliers
    - Can contact the suppliers
    - Can add and delete suppliers
- 
- Chefs
    - Add new items to the menu
    - Can see the orders which has not been confirmed yet
    - Notifies the waiter when the order is ready
    - Can send notifications
- 
- Waiters
    - Can see the completed orders confirmed by chefs
    - Update the total confirming the payment of the orders
    - Manage tables of the restaurant

Tables also will have a login page: each page will have a unique number and a password. They will be used by the customers sitting on the tables and their accounts will be logged in all the time, in order to

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prevent confusion and ordering inconsistencies. Tables' GUI is simple and will provide the customers an easy way to make an order, change it, view the processing and the total amount.

### **2.3 Assumptions**

It is assumed that the core part of our software is implemented in the tablet of each table and staff members' computers/tablets. Might turn out to be a little expensive for small restaurants who may not afford the costs of buying as many tablets as the number of tables.

It is assumed that the administrator profile is added by the creators of the application and then the administrator is responsible for adding, deleting other staffs' profile.

It is assumed that all the staff is trained to use the application in order to avoid misconceptions.

It is assumed all the clients will be serious and not try to use the tablets for anything else except their primary function: to order the food.

It is assumed that we know the real procedures happening in a restaurant.

It is assumed that tablets have access to the internet all the time.

It is assumed that accountant will create the transactions for purchased equipment or kitchen gadgets, based on the information provided by the suppliers.

It is assumed that the software will be used only by the staff, therefore validation and security will not be a key point of our software. However login will be validated, as well as some text fields containing important information.

### **2.4 Constraints**

The project is constrained by the financial state of the restaurants that are going to use it. Since the application is going to be put in tablets in the tables in the restaurant, it is crucial that the owners are willing to initially invest their capital in some qualitative tablets.

The project is constrained by the Internet connection. Since the application fetches data from the database over the Internet, it is crucial that there is stable Internet connection for the application to function.

The project needs to have real time communication between chefs, waiters and tables.

### **2.5 Dependencies**

- The chain starts from the client who does the order. Directly the order goes to the chef.
- Chef prepares the order and automatically products used for the order are subtracted from the database and if there is anything absent any product or tool chef sends notification message to accountant. Also when order is ready notify the waiter.
- Waiter takes the notification and sends the order from the chef to the client.
- Accountant is engaged on employees' salaries distribution and if he gets any notification for tool or products missing make orders to the relevant suppliers companies.

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- Above all of the employees, there is Administrator who supervises all their actions.

### **3. Requirements**

#### **3.1 Functional Requirements**

The requirement numbering follows the scheme - BR\_##

No.	Requirement	Comments	Priority	Date	Reviewed/Approved
BR_01	The software should have different views for different user levels	The view for the client, chefs, accountant and administrator will be different.	1	11/04/2018	Erisa Hoxha, Andel Gugu, Gerta Shillaku, Fadile Gurra, Melba Hysa
BR_02	Administrator is responsible for registering all the staff members and tables into the management system, applying the predefined rules by the conventional system of the restaurant.	Usernames will be in the format name.surname and the password generated for each user will be in the format NameSurnameBirthYear, for the tables Table-Number. Users can change their passwords after.(recommended)	1	11/04/2018	Erisa Hoxha, Andel Gugu
BR_03	No staff member can edit the username.	Editing usernames conflicts with our operational intelligence.	2	15/04/2018	Andel Gugu, Gerta Shillaku
BR_04	In case a staff member leaves the job/is fired, the administrator has to delete his account from the system.	All the personal data and transactions between them and the restaurant will be erased from the system.	2	15/04/2018	Andel Gugu, Gerta Shillaku, Melba Hysa
BR_05	The administrator needs to add modify and delete users/tables.	CRUD functionalities possessed by the administrator	1	23/04/2018	Erisa Hoxha, Andel Gugu
BR_06	A user should have a profile page. On the profile page a user can edit his/her information, which includes the name, surname, password, and phone number. The user can modify the personal information in his/her profile.		1	23/04/2018	Gerta Shillaku, Fadile Gurra, Melba Hysa
BR_07	Staff members' accounts should be secured with passwords.	For ethical and security reasons, passwords will be hashed before being stored in the database.	1	23/04/2018	Gerta Shillaku, Andel Gugu, Erisa Hoxha
BR_08	Tables' accounts should have the menu page displayed as the main page. Clients can easily find their food by clicking into the favorite category. (meat, pasta, rice, pizza)	This will provide a practical and easy method for the visualization of the dishes.	1	25/04/2018	Gerta Shillaku, Andel Gugu
BR_09	When a costumer clicks "ADD" button, the corresponding dish will be added to the Order List on the bottom side of the page.	This will give real-time information about the price of your order, as well as help the costumer not forget what	1	25/04/2018	Erisa Hoxha, Fadile Gurra

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		he had previously ordered.			
BR_10	Given that the costumer confirms the order, a timer will be displayed, showing the remaining estimated time until dish is ready.		3	30/04/2018	Andel Gugu, Melba Hysa
BR_11	Upon confirmation, the order will be added to the queue list of the chefs, until one of them takes the order.	This is a quick way to order food and doesn't need an intermediary such as waiters.	2	03/05/2018	Erisa Hoxha, Andel Gugu
BR_12	When the chef clicks "Ready" for the respective dish, the ingredients of the dish and their amounts are subtracted from the total amounts, stored in the database.	This is a more efficient way of managing food products dynamically, instead of spending a lot of time doing an inventory by the end of the week.	1	03/05/2018	Erisa Hoxha, Andel Gugu
BR_13	As soon as the customer pays the bill, the waiter/chef confirms the payment and table's status is set to available.		2	04/05/2018	Erisa Hoxha, Andel Gugu
BR_14	When a payment is confirmed, a transaction is generated and stored in the accountant's transaction list	This avoids stealing or other mistakes made during calculations, as everything is done automatically.	1	04/05/2018	Andel Gugu, Fadile Gurra
BR_15	When the payment is confirmed, the software prints the bill.	Waiter can print the bill by clicking on the specific printing button.	3	04/05/2018	Erisa Hoxha, Andel Gugu
BR_16	The waiter should keep track of all the confirmed orders by chefs, so they can accept any of them whenever available.	Waiter claims the order and has to deliver it to the right table	1	05/05/2018	Erisa Hoxha, Gerta Shillaku
BR_17	Given that the accountant is logged in, he should be provided with the following 3 lists:  a. suppliers list b. product list c. worker list	These are among the key sources of data that come to the restaurant.	1	05/05/2018	Erisa Hoxha, Andel Gugu, Gerta Shillaku
BR_18	A chef can notify the accountant about missing/broken/needed kitchen gadgets, by sending notifications/requests.	The accountant receives the notification, reads it and orders whatever is needed, by contacting the distributors.	2	12/05/2018	Andel Gugu, Fadile, Gurra, Melba Hysa
BR_19	The notifications will be in the form of text/description where the request is specified.			12/05/2018	Erisa Hoxha, Gerta Shillaku
BR_20	When the amount of a certain product is below a threshold, an automatic notification is sent to the accountant.	These automated requests avoid the need for a product inventory.	1	12/05/2018	Erisa Hoxha, Andel Gugu
BR_21	Every transaction managed by the accountant is saved in pdf/text format or is sent to administrator.	It makes every process be transparent and well-documented.	2	12/05/2018	Andel Gugu, Gerta Shillaku, Fadile Gurra

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BR_22	A waiter can see the status and information of every table in the restaurant and declare them as busy/available.	Whenever a new customer comes, the waiter can immediately tell them where to sit down.	1	12/05/2018	Erisa Hoxha, Gerta Shillaku
BR_23	The accountant must generate new transaction reports, after it's informed by the supplier about the costs.	It can assign the transaction's description to "gadgets/equipment".	1	20/05/2018	Erisa Hoxha, Andel Gugu
BR_24	At the beginning of each month, the salaries of every staff member are set to 0, indicating that salary transactions for that month should be done.	The accountant can enter the numeric value (salary) in the appropriate text field, which displays the current salary of the member.	1	20/05/2018	Andel Gugu, Fadile Gurra
BR_25	If the customer has already ordered, it can see and change their dishes amount by clicking on "Order # sent".	The customer can make changes, as long as the order hasn't been claimed yet by a chef.	2	22/05/2018	Erisa Hoxha, Andel Gugu, Melba Hysa
BR_26	A customer must be able to track the activity of his order any time.	At the top of the page, the customer will be shown "Order # sent/processing/ready".	2	22/05/2018	Erisa Hoxha, Andel Gugu, Gerta Shillaku

### **3.2 Non-Functional Requirements**

#### **3.2.1 User Interface Requirements**

A software application is as good as the interface it provides to its users. Appropriate performance, easy navigation, elegant and stylish design, fast response times make the difference to a system's utility. The user interface for this software is designed to be well suited to any browser as Chrome or Mozilla and can be accessed through portable tablets which are very practical and easy to use.

This software will include: Home interface, Administrator Interface, Chef's Interface, Waiter's interface, Accountant's Interface and Table's Interface.

Home interface will include:

- Restaurant Logo.
- Some of the dishes
- A Log In popup window.

Administrator's interface will include:

- Worker button
- Tables button
- Add on menu button
- Orders button
- Log out button
- All restaurant tables as buttons

Chef's interface will include:

- Add new dish button

- Log out button
- A table where which row involves :table number, Order, Accept button , Done button.

Waiter's interface will include:

- Log Out button
- Tables and Orders Buttons
- A table with the confirmed orders until that moment. Options: Accept, Confirm, Print Receipt.
- A list of all the tables and their current status.

Accountant's interface will include:

- Log Out button
- Employee Information Table
- Product Information Table
- Buttons: Suppliers, Create Transaction, See Transactions, Update Profile.

### **3.2.2 Usability**

Usability is an important attribute which defines flexibility of the software. This software shall be able to work in a practical and easy way for clients, employees and administrator.

Employees shall find it very comfortable using the software on the tablet during work hour and also clients shall find it not difficult to understand how to use it. In this way all software users can achieve their objective with effectiveness and satisfaction.

#### *Learnability*

Learnability is the capability of a software product to make as simple as possible for the user to learn its application.

- This software is designed to be easy to learn, easy to use, subjectively pleasing.
- Employees can log in. This software is designed to be used by all kind of people from all ages. There are instructions and alert messages that will be shown during execution of each task.
- Icons and Menu options facilitate the user to perform their tasks. For example clients find any dishes that they impact - a right click on a button displays a list of specific dishes restaurant offers.
- Provide respond messages that a user command has succeeded or advise of failure. If you try to log in with a wrong username/password it will be shown a feedback message that the log in process failed due to wrong credentials.
- Provide instruction messages for user interface components: dialog boxes, fields that require input and image details. For example, if you type a password with less than a certain number of characters it shall display :"No less than 6 number of characters is allowed".

### *Accessibility*

We know that an application have to be functional, but can this application be accessed by everyone? In this application users are staff employees, administrator and client consumers. This software tends to simplify as much as possible accessibility of these users through:

- Employees working in the restaurant can access the software through their accounts.
- Clients ordering in the restaurant can access the software when they reserve a table .
- Administrator of the restaurant can access the software through his account.
- Every user level will have access to resources that belong to his/her interest.
- Taking in consideration all the conditions of the client this software is applicable and usable also for the people with disabilities such as :

Hearing - You can look for details of dishes on the portable table instead of asking the waiter, you can order through tablet instead of communicating with the waiter.

Speaking - The ordering can be done automatically,

People who can't lift and carry anything, walk and use stairs - ordering is done through tablet, waiter brings the order to the table.

### *Memorability*

After the employees learns how to navigate this software and find what they are looking for, they need to be able to remember how to do it when they come back. Memorability is a measure of how easy software is to remember after a substantial time lapse between visit. Design of the software through icons and instructions encourages the increasement of client memorability.

### **3.2.3 Performance**

In order to assess the performance of a system the following components must be clearly specified:

- Response Time
- Workload
- Platform

Response Time of the software is another component to be taken in consideration. Ordering on tablet shall be processed in a few milliseconds. Our motto is: "Our client is sacred. Don't let him/her waiting to order, don't let him/her waiting for the order."

Workload defines the capability of the system to handle the maximum of the clients interacting with the system. This software shall be able to offer the required service even to the maximum capacity of the clients.

A platform is defined as the combination of both hardware and software which will house the system. So this platform to be able to offer the best software design and the best functionality.

### **3.2.3.1 Capacity**

The ONLY measure that is meaningful and relevant when it comes to defining the Capacity needs of an application is the MAXIMUM.

The performance of the web application shall support all the tasks of the restaurant employees, clients and administrator to be performed on the maximum capacity in order to be functional in each possible restaurant population conditions.

Since this application uses a single database, there may come a time when it can become congested and overloaded, affecting the time of data fetching.

### **3.2.3.2 Availability**

The restaurant is open from 8 o'clock am to 12 o'clock pm, so the system shall be available 24/7, but its maximum availability is required during the specified time interval. Also the software is in English only. Availability is an essential ethic component that is closely related with good reputation of the restaurant. So this software's purpose is to offer maximum availability.

### **3.2.3.3 Latency**

The latency of RMS will mostly depend on:

- Internet connection speed
- Efficiency of the fetching data from the database algorithms + processing and calculation algorithms.
- Size of the database being used.

## **3.2.4 Manageability/Maintainability**

### **3.2.4.1 Monitoring**

Monitoring is an approach of defining and checking the performance characteristics of software systems. The purpose of this task is to ensure that this software covers successfully the issues below:

- Whether the application is running.
- Unusual tablet/memory/network usage.
- Report any unhandled exceptions.
- Status of external components (databases, etc.)
- Number of pending tasks.

It is administrator's task to handle and correct the errors, by following specific procedures with the appropriate validations and tests.

### **3.2.4.2 Maintenance**

MySQL is the platform of our database and server type is Apache. In case of a failure, a re-initialization of the program is recommended. If it is not the case, that means that the server may be down, so the user needs to wait for the system administrator to start the server.

If any extension or modification needs to be done, then it will be very easy. Since PHP is object oriented also, we've created the appropriate classes with the right functions needed for our software's functionalities. Therefore if you need to add or remove lines in the code, you just need to find the right class and change what you need to. Modularity provides for a better maintenance.

In case of bugs correction, we will be able to deliver the updated and improved version of our software.

### **3.2.4.3 Operations**

Operational requirements are the basis for system requirements. They define the essential of functionality.

Some of the operations required by the users include:

- login of chef
- login of waiters
- login of accountant
- login of administrator
- ordering for clients
- mediation of dishes with products
- service offered as a chain from chef and then from waiter
- CRUD of employee profiles, tables, products and dishes.
- financial assistance from economist for employees and restaurants products
- communication of clients with staff
- communication of the accountant with the suppliers
- generation of PDF invoices and bills.

### **3.2.5 System Integration**

System integration is defined as the process of bringing together the component sub-systems into one system (an aggregation of subsystems cooperating so that the system is able to deliver the overarching functionality) and ensuring that the subsystems function together as a system. Our project is not considered as a big software and that's why we have a whole system, not organized into sub-system. But it is organized in modules, Accountant, Chef, Tables, Chef and Admin, which communicate with each other using notifications and queries.

### **3.2.6 Security**

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- The surveyor of the software will be administrator so he/she will be the the only one who monitors and accesses the data for everyone on the restaurant.This software offers to every user a decent level of security.
- To meet the security objectives, a certain security components shall be covered such as: Identification, Authentication, Authorization, Validations, System Maintenance.
- These components shall be achieved through:
- The application shall identify all of its clients, staff employees, administrator before allowing them to access its capabilities.
- Specific authenticated externals shall access specific software component capabilities or information if and only if they have been explicitly authorized to do so by a properly appointed person(s). For example: The account of waiter shall not be accessed by the chef.
- Unauthorized individuals shall not gain access to users credentials or information.
- The application shall not violate its security requirements as a result of the replacement of a data, hardware, or software component.

#### **3.2.6.1 Protection**

The software is accessible by a username and an encrypted password. Only by these two credentials the worker or the client can use this application for their purposes.

- In order to increase the protection of information , encrypting passwords should be applied to each user registered.
- If an employee wants to edit its profile, the administrator should be alerted through a notification message.
- The password of an employee can be changed anytime,it's up to the employee's preferences.
- The username and password for administrator might be edited anytime based on administrator preferences.

#### **3.2.6.2 Authorization and Authentication**

An authentication requirement is a component of security requirement. It shall verify the identity of its externals before interacting with them.

- The software shall verify the identity of all the users who access it before allowing them to use its capabilities. Employees or administrator can have access to the system through their credentials: username, password.
- The software shall verify the identity of all of its users before allowing them to update their user information. An employee can't edit his/her profile without logging in.

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- The software shall consider the repeated requested validation failures as fraud. If a client or a worker makes repeated requests to log in to the system with a wrong username/password the client or worker shall not be logged in.
- The software shall not allow any employee to access any account information of any other worker.

#### **3.2.7 Data Management**

This application is based on MySQL language.

There will be some tables which are going to be connected with each other with joint tables. For example: each order will have the id-s of each table, each chef and each waiter. There will be a table for the staff and a table for the tables of the restaurant.

Each user entry or table entry is protected by a password.

#### **3.2.8 Portability**

This application can be accessed by everyone who wants to see the facilities this restaurant provides, but only the members of the staff will have a username and a password to login so to collaborate with other members of this online community.

### **3.3 Domain Requirements**

This system manages and covers everything related to the restaurant, other remaining tasks are performed by the responsible people without the need of computers. Therefore our system doesn't need to communicate with other systems of the same business. Therefore our project doesn't have any specific domain requirements.

1. Multiple users must be able to use the software simultaneously without corrupting the database.
2. The necessary software required to run the application. Software is written in PHP, latest version of PHP must be installed in order for the program to run.
3. A server must be set up to host the database, and the server must be accessible by all the systems running the restaurant management system software.
4. The database should be backed up every once in a while in case the original does become corrupt.
5. Software must verify all values before making the change in the database.
6. Software must have update capabilities for future models and accessories.

## 4. SOFTWARE ANALYSIS AND DESIGN

### 4.1 ANALYSIS

#### 4.1.1 User Scenarios

These are the user scenarios of RMS:

##### USERS:

1. Admin
2. Accountant
3. Chefs
4. Waiters
5. Customers

##### ADMIN

1. Taps Log In in the main Page
2. Enters his/her credentials
3. Will be redirected to Admin Page, with all the functionalities provided for the admin status such as:
  - CRUD options for software users
  - Table Management
  - Add on Menu

##### ACCOUNTANT

1. Taps Log In in the main Page
2. Enters his/her credentials
3. Will be redirected to Accountant Page, with all the functionalities provided for the accountant status such as:
  - Communication with food companies (suppliers)
  - List of products and their specifications + management
  - Management of workers' salaries
  - PDF files documenting every transaction

##### CHEFS

## **RMS Requirements Specification**

1. Taps Log In in the main Page
2. Enters his/her credentials
3. Will be redirected to Chef Page, with all the functionalities provided for the chef status such as:
  - Order Management
  - Add new items in the menu
  - Make requests about new kitchen equipment

### **WAITERS**

1. Taps Log In in the main Page
2. Enters his/her credentials
3. Will be redirected to Waiter Page, with all the functionalities provided for the waiter status such as:
  - Table Management (busy/available)
  - Order payment confirmation
  - Receipt printing

### **CUSTOMERS (USING TABLES ACCOUNT)**

1. The tablet on their table displays the menu page.
2. Customer chooses one of the categories (pizza, pasta, meat etc.) and clicks on one of the dishes, in order to add it to the order list.
3. Customer confirms the order, by clicking SEND ORDER.
4. As soon as the order is confirmed, the customer is displayed the home page, stating the order number and content at the top.

### *More Detailed User Scenarios*

#### **Scenario 1 – Successful Login**

- a. The user enters his username.
- b. The user enters his password.
- c. The user attempts to Login after the fields are filled in.
- d. If there is a match with an entry in the database, he is logged in to his account.
- e. The user is redirected to the home page of his account.

#### **Scenario 2 – Unsuccessful Login**

- a. The user enters his username.
- b. The user enters his password.

### **RMS Requirements Specification**

- c. The user attempts to Login after the fields are filled in.
- d. If the credentials are wrong, there won't be a match in the database, therefore the user will be displayed an error message, saying "Wrong credentials, enter your credentials again."
- e. The Login page will be refreshed, so the user can enter the credentials again.

#### **Scenario 3 – Admin creates a new user**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Staff Page.
- c. Administrator creates a new Staff Member.
- d. Administrator is displayed a form, with the basic information needed to be provided.
- e. Administrator fills in the information, regarding name, surname, username, initial password, phone number, category and an optional picture.
- f. Administrator confirms the procedure after filling in the spaces.
- g. Member is created as an entry in the Employee table of the database.
- h. Administrator is redirected to the Staff Page.

#### **Scenario 4 – Admin faces an error while creates a new user**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Staff Page.
- c. Administrator creates a new Staff Member.
- d. Administrator is displayed a form, with the basic information needed to be provided.
- e. Administrator fills in the information, regarding name, surname, username, initial password, phone number, category and an optional picture.
- f. Administrator confirms the procedure after filling in the spaces.
- g. If the validation functions detect an anomaly, Administrator is displayed an error message, telling him where the problem with the entered data is.
- h. Administrator enters the data again, until there are no validation problems.

#### **Scenario 5 – Admin modifies user information**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Staff Page.
- c. Administrator searches through the Staff members list the name of the user he wants to modify.
- d. After finding the user, he starts the editing procedure.
- e. Administrator is displayed the page containing user's details, which are editable by the administrator.
- f. After editing, administrator saves changes.
- g. Administrator is redirected to the Staff page again.

**Scenario 6 – Admin modifies user information**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Staff Page.
- c. Administrator searches through the Staff members list the name of the user he wants to modify.
- d. After finding the user, he starts the editing procedure.
- e. Administrator is displayed the page containing user's details, which are editable by the administrator.
- f. If there was a mistake during the process, the administrator will be displayed an error message, telling him where the problem with the entered data is.
- g. Administrator enters the data again, until there are no validation problems.

**Scenario 7 – Admin inserts a new table in the restaurant.**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Tables Page.
- c. Administrator adds a new table in the restaurant.
- d. A window will pop-up, asking admin to enter the table number, table password and number of chairs.
- e. After clicking “Add”, the table will be added as an entry in the database.

**Scenario 8 – Accountant inserts new products.**

- a. Accountant of the software is logged in the system.
- b. Accountant goes to the Products section.
- c. Accountant wants to add a new product.
- d. Accountant will be displayed a form, with the entry information needed to be provided.
- e. Accountant fills in the information, regarding the product.
- f. Accountant saves the new product entry.
- g. Accountant is displayed a confirmation table, indicating success.

**Scenario 9 – Admin inserts new entries on the menu.**

- a. Administrator of the software is logged in the system.
- b. Administrator goes to the Menu Page.
- c. Administrator wants to add a new entry on the restaurant's menu.
- d. Administrator will be displayed a form, with the entry information needed to be provided.
- e. Administrator fills in the information, such as the name, price, ingredients and picture.
- f. Administrator saves the new entry.
- g. Accountant is displayed a confirmation table, indicating success.

PS: Normally, this is a feature of Chefs but since there may be a radical change in the menu, for unknown reasons, it wouldn't be convenient for the chefs to insert all the dishes, that's why administrator can do it as well.

**Scenario 10 – Accountant searches a supplier in the Supplier's list.**

### **RMS Requirements Specification**

- a. Accountant is logged in the system.
- b. Accountant goes to the Supplier Page.
- c. Accountant is shown a table with all the suppliers of the restaurant and a search icon in the corner.
- d. Accountant starts typing the name of the supplier and table gets updated every time a key is pressed, displaying search results.

#### **Scenario 11 – Accountant adds a new supplier in the Suppliers list.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Supplier Page.
- c. Accountant is shown a table with all the suppliers of the restaurant.
- d. When accountant wants to add a new Supplier, a popup window appears, displaying a form where the new supplier's information is entered.
- e. After entering the required information, accountant saves the changes and if the process is successful, he will be redirected to the Supplier's list.
- f. Otherwise, display an error message.

#### **Scenario 12 – Accountant edits the information of the food products.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Product section.
- c. Accountant is shown a table with all the food products needed for the restaurant.
- d. When accountant wants to edit the information of some product, it can change the content of the text fields of quantity and price.
- e. Accountant can edit them and then save changes after.
- f. Accountant is redirected to the Products page.

#### **Scenario 13 – Accountant searches a product in the Product's list.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Product section.
- c. Accountant is shown a table with all the food products of the restaurant and a search icon in the corner.
- d. Accountant starts typing the name of the product and table gets updated every time a key is pressed, displaying search results.

#### **Scenario 14 – Accountant updates the monthly salary for an employee.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Staff section.
- c. Accountant is displayed a list of the employees and their salaries next to their names.
- d. If it doesn't display the salary next to the name, then accountant knows he hasn't updated the salary of that employee for the current month, so he does it.
- e. After entering the salaries, accountant saves the changes.

**Scenario 15 – Accountant generates a PDF document with all the salaries of the employees for that month.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Staff section.
- c. Accountant is displayed a list of the employees and their salaries next to their names.
- d. Account selects the print option and a PDF containing all the salaries and total amount is printed, which will be later signed by the accountant.

**Scenario 16 – Accountant orders food products.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Suppliers Page.
- c. Accountant will be displayed the suppliers.
- d. Accountant selects the suppliers he wants to order from and checks the products he wants and the quantities.
- e. After finishing marking the needed products, he submits the request.
- f. Accountant is redirected to home page again.

**Scenario 17 – Accountant generates a PDF, listing the ordered food products for a supplier.**

- a. Accountant is logged in the system.
- b. Accountant goes to the Suppliers Page.
- c. Accountant will be displayed the suppliers.
- d. If the accountant has already marked the food products for a supplier, a "Generate Bill" option will appear.
- e. Accountant clicks on this button and the PDF will generated.
- f. Accountant saves it to his computer, in order to send it later to the supplier.

**Scenario 18 – Chef claims an order.**

- a. Chef is logged in the system.
- b. Chef is displayed a table of orders and he has to choose one of them.
- c. If he wants to take any of the orders, he accepts the order.

**Scenario 19 – Chef confirms an order.**

- a. Chef is logged in the system.
- b. Chef is displayed a table of orders.
- c. If he has already claimed an order and has finished cooking, he can confirm the order.

**Scenario 20 – Chef adds a new dish on the menu.**

- a. Chef of the software is logged in the system.
- b. Chef goes to the Menu Page.
- c. Chef adds a new entry on the menu.

### **RMS Requirements Specification**

- d. Chef will be displayed a form, with the entry information needed to be provided.
- e. Chef fills in the information, such as the name, price, ingredients and picture.
- f. Chef saves the new dish by confirming it.

#### **Scenario 21 – Chef makes requests about kitchen materials that got broken or went missing.**

- a. Chef of the software is logged in the system.
- b. Chef goes to the Requests Page.
- c. Chef writes in a text field what he needs in the kitchen and then sends it to the accountant.

#### **Scenario 22 – Waiter assigns the status to a table.**

- a. Waiter is logged in the system.
- b. Tables are displayed as tabs and the waiter can choose the status for each of them. (available/busy)

#### **Scenario 23 – Waiter confirms payment.**

- a. Waiter is logged in the system.
- b. As soon as the client pays, the waiter can confirm it.

#### **Scenario 24 – Waiter prints the bill.**

- a. Waiter is logged in the system.
- b. As soon as the client pays, after payment confirmation by the waiter, he also prints the generated bill.

PS: Customer scenario doesn't need to be extended.

PS: Customer scenario doesn't need to be extended.

#### **4.1.2 Use Cases**

<b>Name</b>	Login
<b>Summary</b>	The user enters the system by typing correct username and password
<b>Actor</b>	Admin, Chef, Waiter, Accountant, Others
<b>Description</b>	To enter the system, the user must type the correct username and correct password
<b>Precondition</b>	Every user must have an existing account
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Each one to enter his/her page

<b>Name</b>	Admin adds a new worker
<b>Summary</b>	The admin can add a new worker by entering the workers information, a photo of the worker and the category
<b>Actor</b>	Admin
<b>Description</b>	All fields of the form must be filled so a new worker to be added
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies if the worker had been added and this employee can enter the system immediately

<b>Name</b>	Admin see tables
<b>Summary</b>	The admin can see the tables of the whole restaurant. Can see which of these are available or not and also open the table page.
<b>Actor</b>	Admin
<b>Description</b>	Every table is identified by its own table number and has a password viewable only from the admin.
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Here it can be seen the number of tables and their availability

<b>Name</b>	Admin edit the worker page
<b>Summary</b>	Admin can open the worker's profile and can add the password, phone number or category
<b>Actor</b>	Admin
<b>Description</b>	Admin can click on the edit button next to the password, phone number or category and make the changes
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies the admin about the change and the employees profile has been changed.

<b>Name</b>	Admin deletes the worker
<b>Summary</b>	Admin deletes the worker from the database
<b>Actor</b>	Admin
<b>Description</b>	When a profile page is opened you can delete the worker by pressing the 'delete' button
<b>Precondition</b>	Admin must be logged in and must have opened profile page of the worker
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Admin is redirected to his page

<b>Name</b>	Admin adds a new table
<b>Summary</b>	The admin can add a new table by its entering its table number, table password and the number of people
<b>Actor</b>	Admin
<b>Description</b>	All fields of the form must be filled so a new table to be added
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies the admin that a new table is available and the table can be accessed immediately

<b>Name</b>	Admin retrieves and edits information of a table
<b>Summary</b>	The admin can change the table password and can change the table number of people. Also admin can see all orders received from that table. There are two buttons which reserve or delete the table
<b>Actor</b>	Admin
<b>Description</b>	To edit the table credentials edit button must be clicked. By clicking 'Orders' button, the list of orders are shown below. Here the table can be reserved and deleted
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies the admin about the changes done

<b>Name</b>	Admin adds a new item in the menu
<b>Summary</b>	After the item name is typed, then there can be added new products and their quantities. There is also an option to add a picture of the item
<b>Actor</b>	Admin
<b>Description</b>	A new item must have at least two products
<b>Precondition</b>	Admin must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies the admin that a new item is added on the menu and that item can be accessed from the customer immediately

<b>Name</b>	Accountant retrieves/adds/deletes the suppliers from the supplier list
<b>Summary</b>	The accountant can see the list of suppliers, add or delete the supplier
<b>Actor</b>	Accountant
<b>Description</b>	There is a table filled with the credentials of the supplier
<b>Precondition</b>	Accountant must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies the accountant for the changes

<b>Name</b>	Accountant sends email to the supplier specifying products
<b>Summary</b>	The accountant can send an email to the supplier to order the product the restaurant wants
<b>Actor</b>	Accountant
<b>Description</b>	Communication with the supplier is done with emails. Accountant sends emails to the suppliers.
<b>Precondition</b>	Accountant must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Accountant is notified for the changes

<b>Name</b>	Accountant checks the notifications received
<b>Summary</b>	The accountant checks the notifications and marks them as read
<b>Actor</b>	Accountant
<b>Description</b>	Communication within staff is done with `notifications`. Accountant can see the messages directed to his username.
<b>Precondition</b>	Accountant must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Accountant marks as `read` the read messages

<b>Name</b>	Accountant creates transaction
<b>Summary</b>	Enters info related to amount, status and description
<b>Actor</b>	Accountant
<b>Description</b>	Accountant can create transactions and store them in the database about the purchases.
<b>Precondition</b>	Accountant must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	No post condition

<b>Name</b>	Accountant searches for a transaction and generates the report in PDF
<b>Summary</b>	Accountant can search for a transaction and then can generate a pdf format for this transaction
<b>Actor</b>	Accountant
<b>Description</b>	Accountant can view the transactions and then can generate a pdf format of this transaction that can be printed
<b>Precondition</b>	Accountant must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	Pdf format can be printed

<b>Name</b>	Accountant/chef/waiter edit their profile/personal information.
<b>Summary</b>	When these actors enter their profiles, there can edit their personal information
<b>Actor</b>	Accountant, Chef, Waiter
<b>Description</b>	Actors can change their only their password, phone number
<b>Precondition</b>	These actors must be logged on
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies about the changes

<b>Name</b>	Accountant inserts staff salaries.
<b>Summary</b>	Accountant is responsible to edit and add the salaries for the staff
<b>Actor</b>	Accountant
<b>Description</b>	On the main page of the accountant there will be the list of all the salaries where only accountant can edit them
<b>Precondition</b>	Accountant must be logged on
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies about salaries

<b>Name</b>	Accountant modifies product information
<b>Summary</b>	Accountant can edit the information about the product
<b>Actor</b>	Accountant
<b>Description</b>	On the main page of the accountant there will be the list of all the products where only accountant can edit the quantity or the price
<b>Precondition</b>	Accountant must be logged on
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	An alert notifies about products

<b>Name</b>	Chef retrieves all the unprocessed orders from the tables
<b>Summary</b>	The chef can see the list of orders available
<b>Actor</b>	Chef
<b>Description</b>	The chef can see the orders in table. Each row has the table number, a list of orders from the menu, a description and a button `Accept'. If one admin accepts one order, it means others cannot see it anymore.
<b>Precondition</b>	Chef must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	When the order is accepted, a new page opens where the chef selects the products which are in the dishes of the order. These products are subtracted from the database.

<b>Name</b>	Chef retrieves all the processed orders by him
<b>Summary</b>	After the chef has accepted the orders, he can see all the orders which are being cooked by him.
<b>Actor</b>	Chef
<b>Description</b>	The chef by clicking on the `processing orders` button can generate the table of all orders which are being cooked by him. Each row contains id of the order, the list of dishes, description and a button `Done`. There he can press `Done` which means the order is cooked.
<b>Precondition</b>	Chef must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	When the order is cooked, the waiter can see the order the order.

<b>Name</b>	Chef sends notification
<b>Summary</b>	Chef can send notification to the other staff members
<b>Actor</b>	Chef
<b>Description</b>	The chef can press the button `create notification` and a pop up window will open. In this pop up window the chef can write the username of the staff he wants to send the message and the message he wants to send. (For example: chef wants to send the notification to the accountant for a new utensil)
<b>Precondition</b>	Chef must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	A new notification record is stored in the database.

<b>Name</b>	Waiter manages the processed orders
<b>Summary</b>	Waiter is responsible for the cooked orders
<b>Actor</b>	Waiter
<b>Description</b>	The waiter can see the finished orders by the chef and accept them. If one waiter accepts the order, the order cannot be seen by other waiters online. The waiters also is responsible for the payment confirmation and printing the receipt
<b>Precondition</b>	Waiter must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	When the payment confirmation is done, a new transaction is added on the database

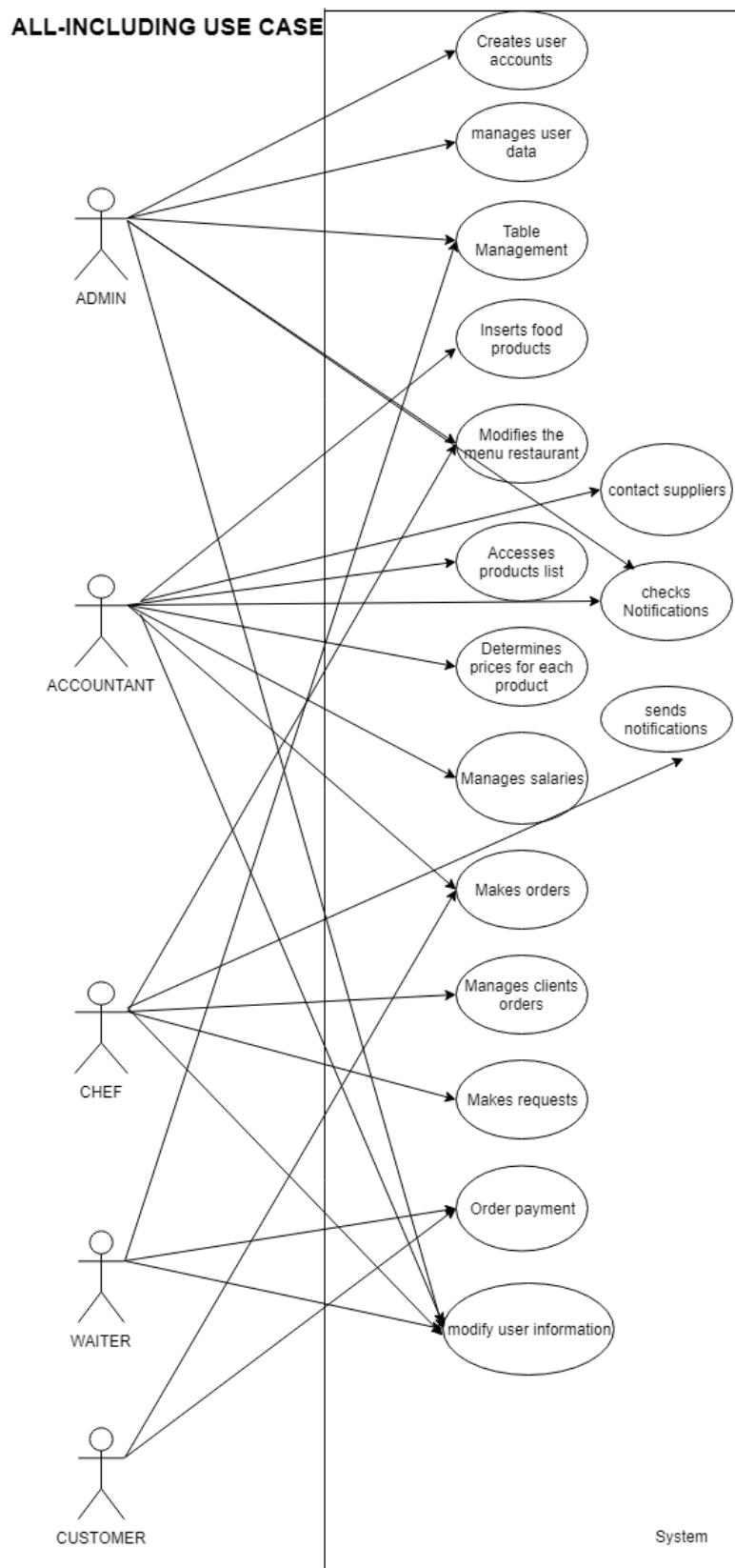
<b>Name</b>	Waiter manages the tables of the restaurant
<b>Summary</b>	Waiter sets the tables as busy or available
<b>Actor</b>	Waiter
<b>Description</b>	Waiter can see the state of all the tables in the restaurant. He can change the states of the tables as busy or available.
<b>Precondition</b>	Waiter must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	No post condition

<b>Name</b>	Table login
<b>Summary</b>	Each table can login from the login page. To log in the table number and the password must be written correctly
<b>Actor</b>	Table
<b>Description</b>	Each table is unique and there must be entered the right credentials so the customers can order the items
<b>Precondition</b>	Each table must have been created before from the admin
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	When logged in, the menu is displayed and the customer can select the order

<b>Name</b>	Order making by table
<b>Summary</b>	Here the customer can select the items from the categories drinks, dishes, pasta, pizza, deserts. When all selected the customer can confirm the order by pressing the confirm button
<b>Actor</b>	Table
<b>Description</b>	There is a list of whole orders available in the restaurant. Also the customer can add a description in the order
<b>Precondition</b>	Table must be logged in
<b>Alternatives</b>	There are no alternative options
<b>Post Condition</b>	The confirmed order can now be seen from the chef. When the chef accepts the order, the customer gets a notification.

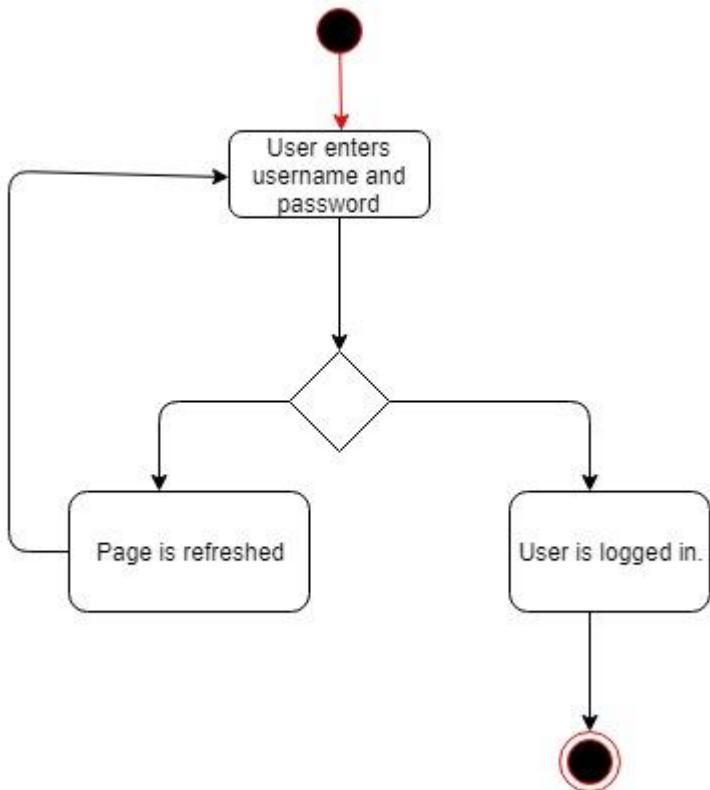
## 4.2 BEHAVIORAL DIAGRAMS

### 4.2.1 USE CASE DIAGRAM

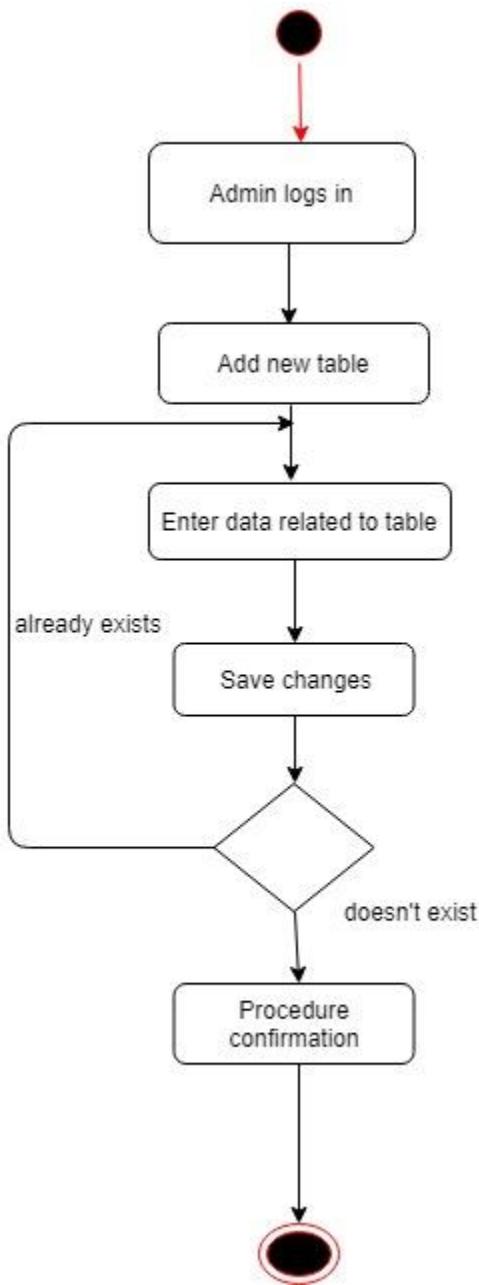


**4.2.2 Activity diagrams**

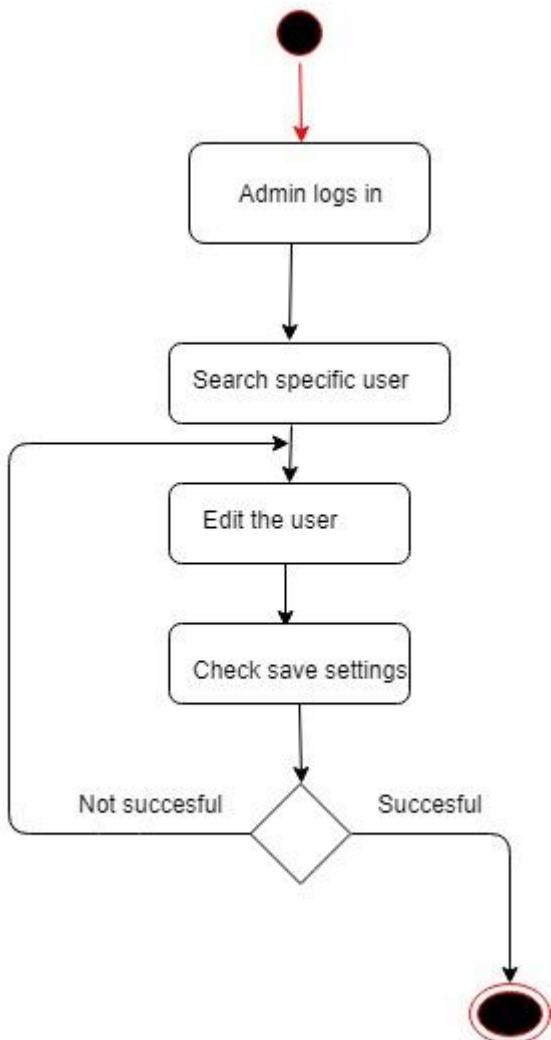
Scenario 1-2



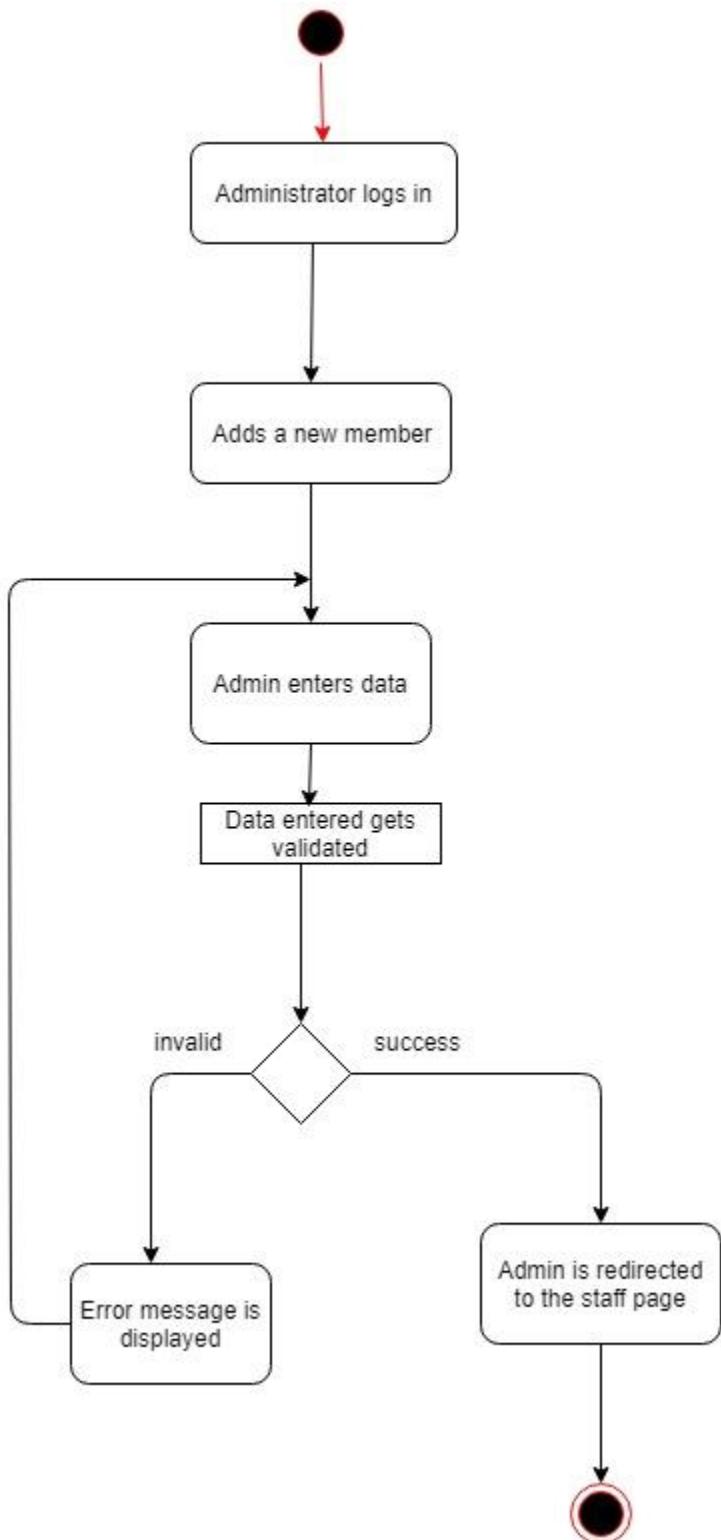
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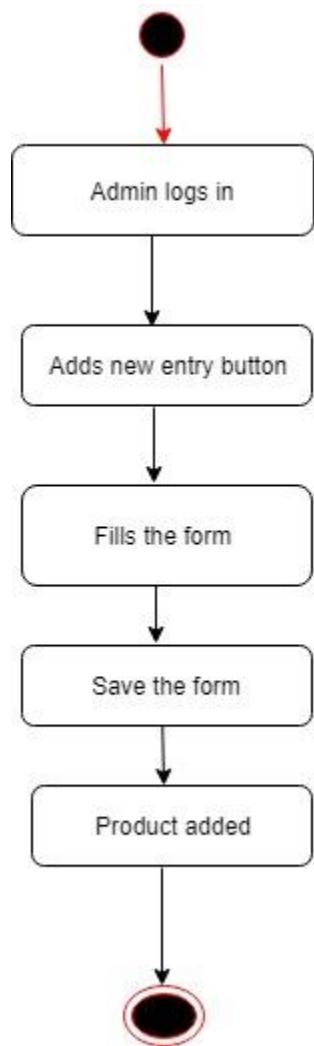
Scenario 5-6



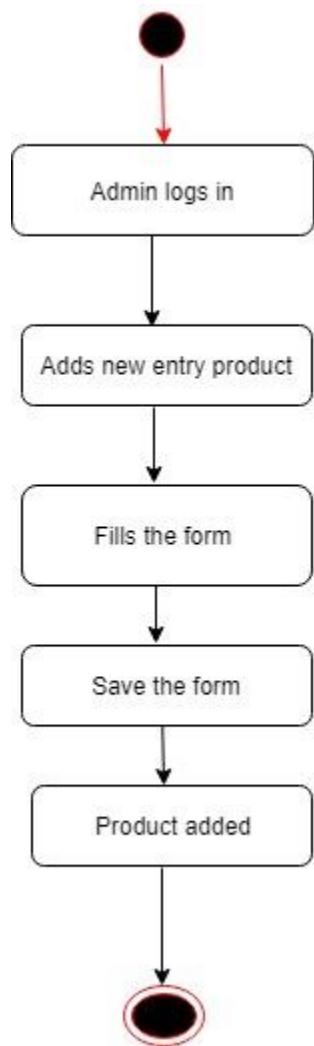
Scenario 7



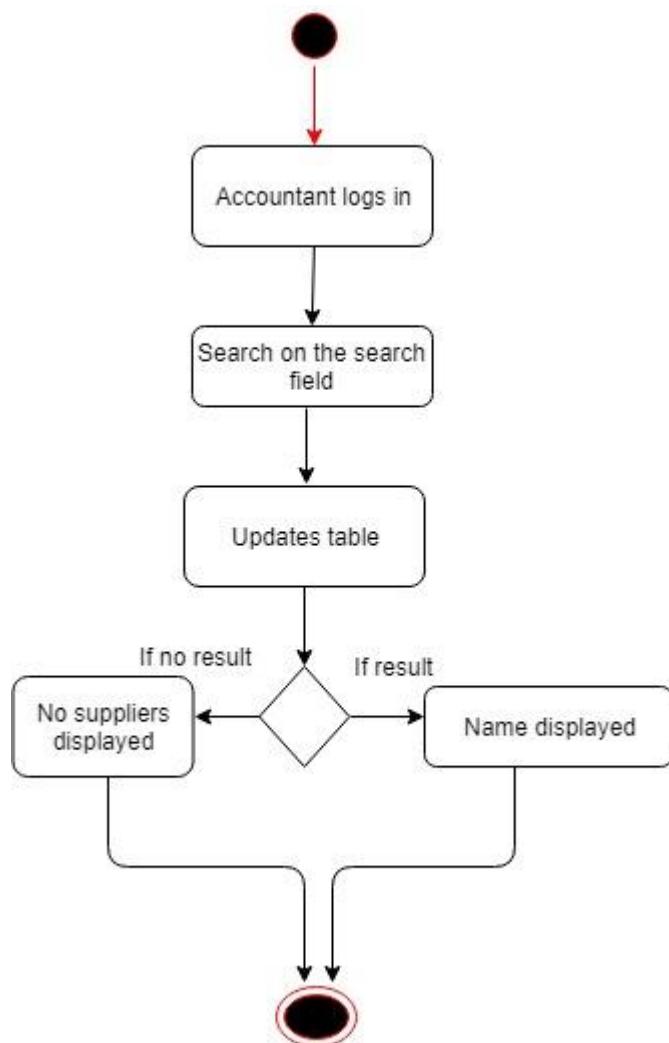
Scenario 8



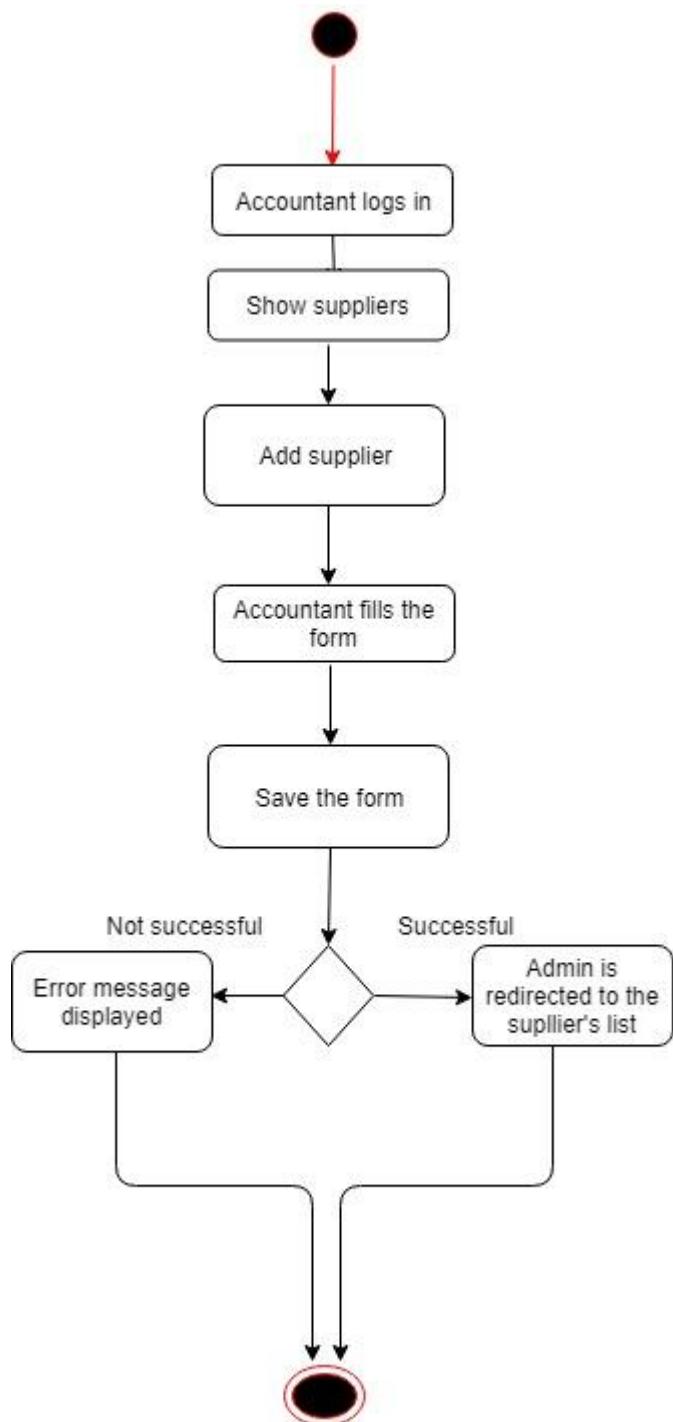
Scenario 9



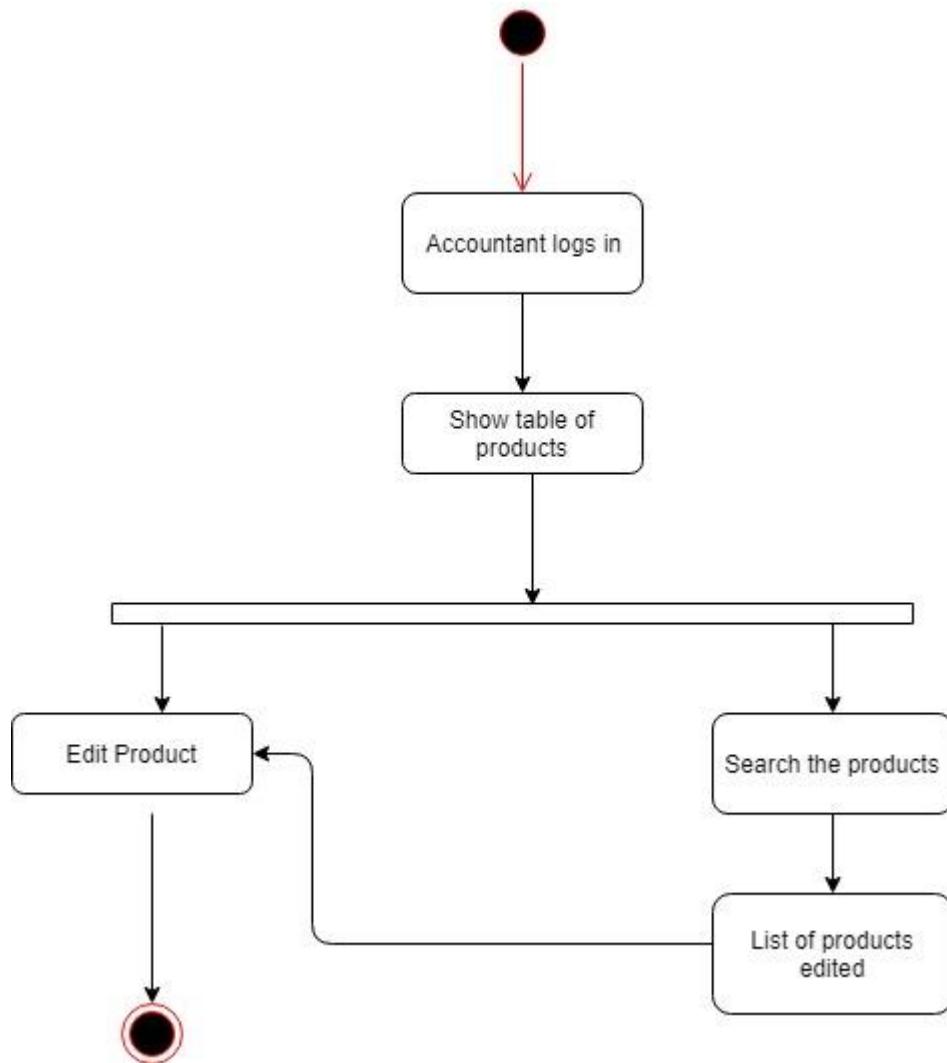
Scenario 10



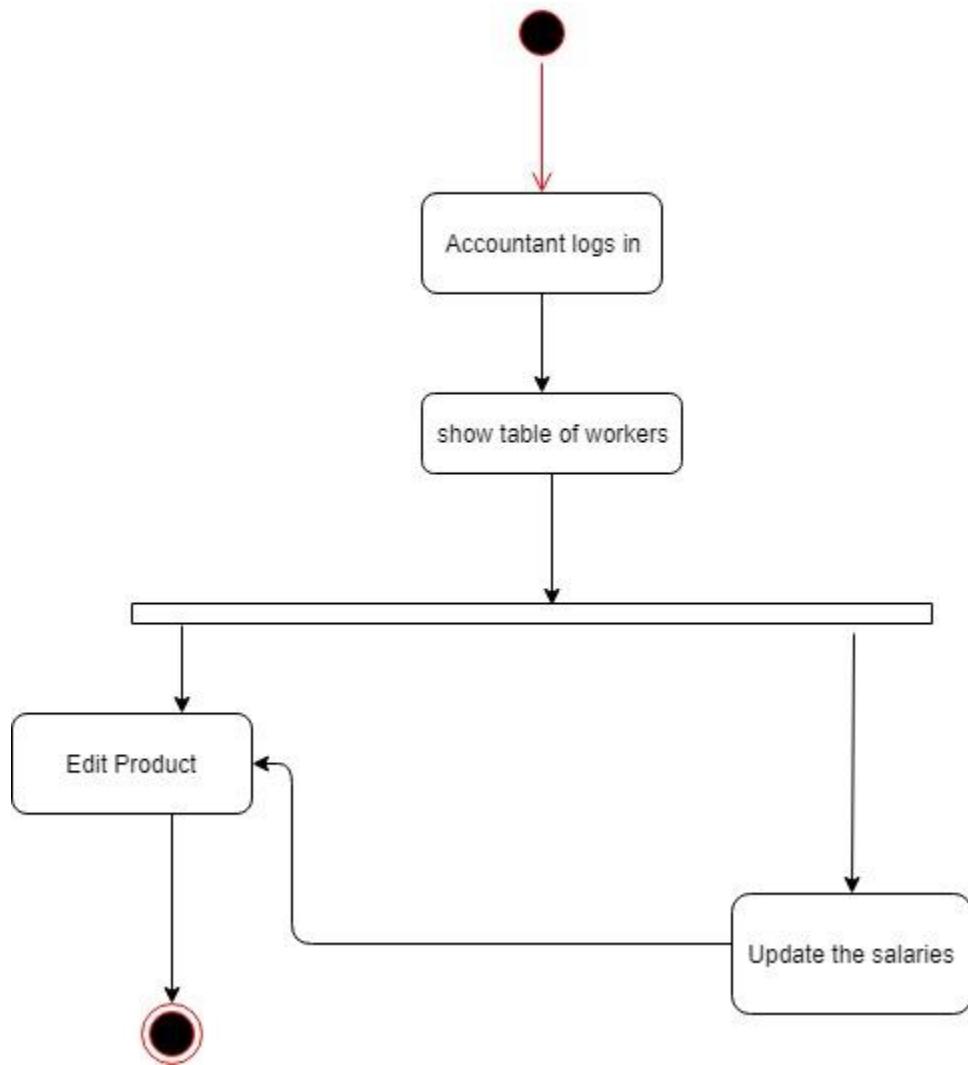
Scenario 11



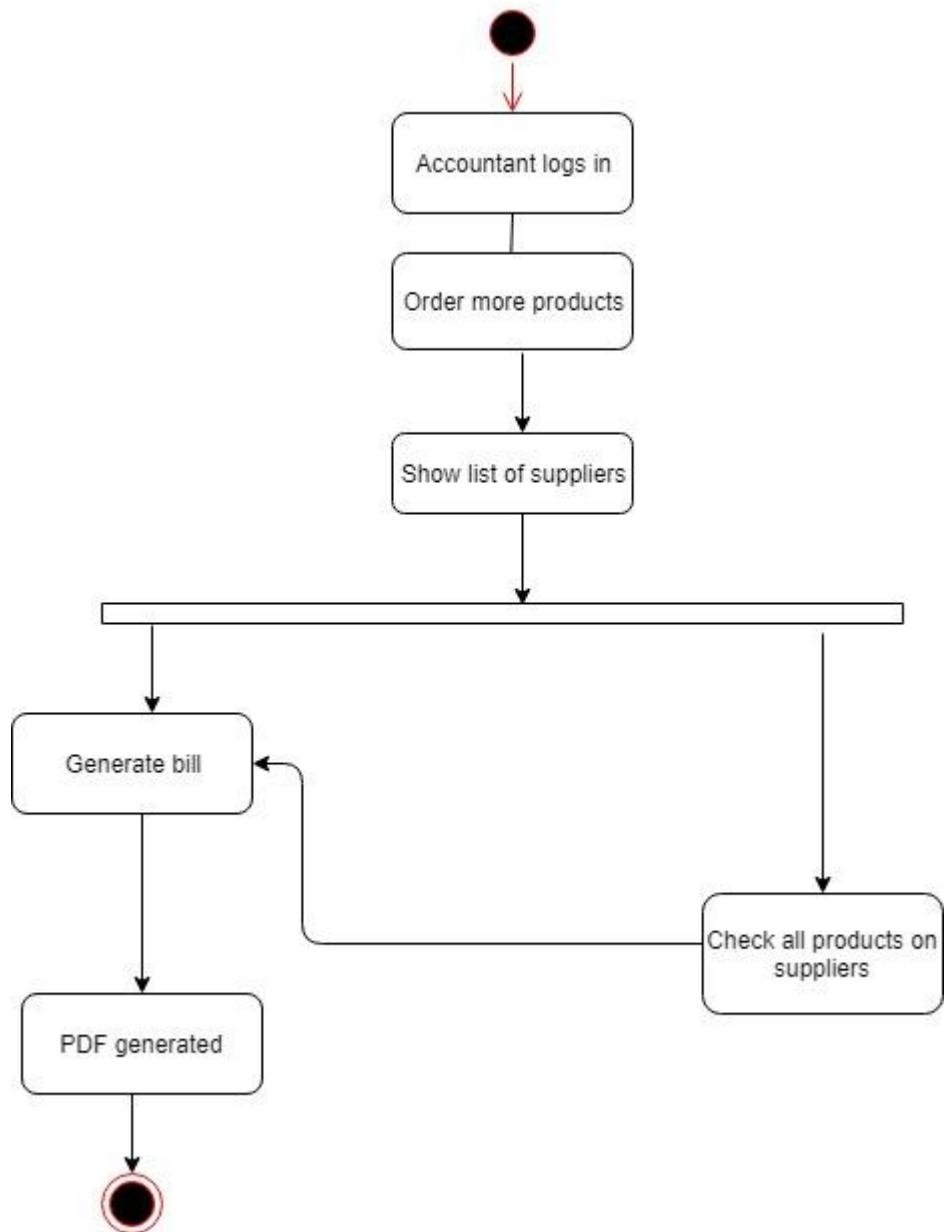
Scenario 12-13



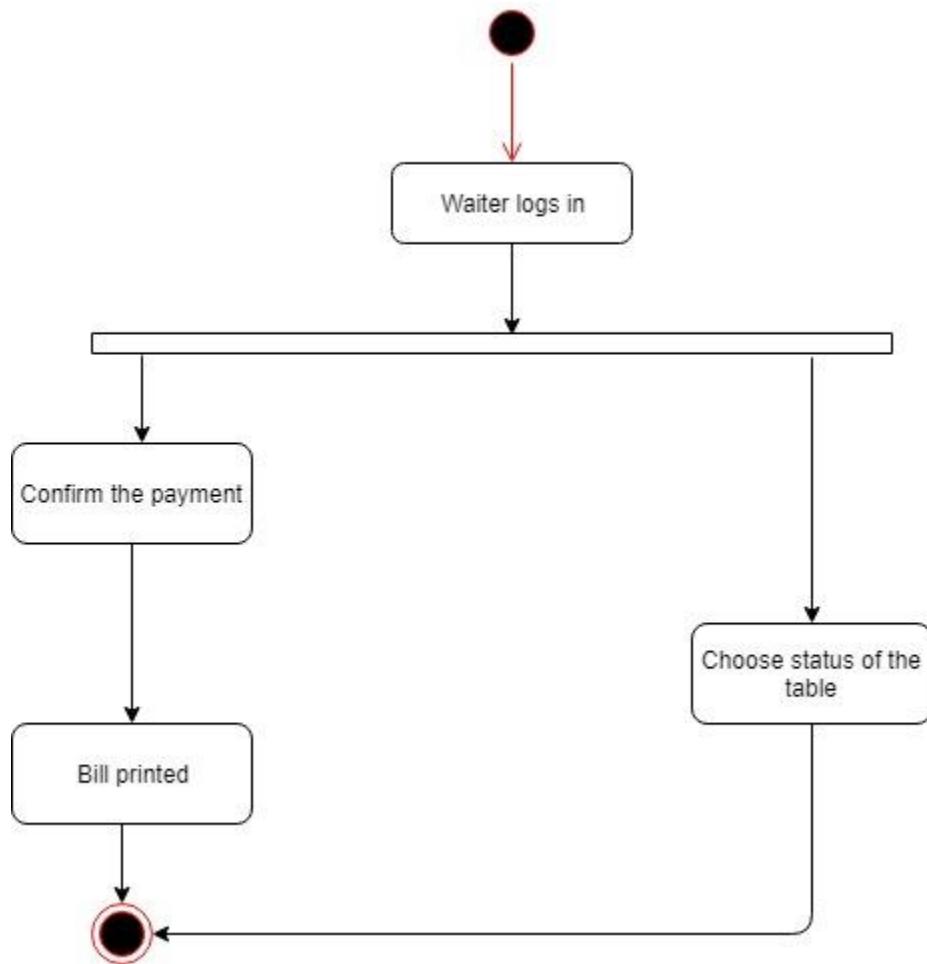
Scenario 14-15



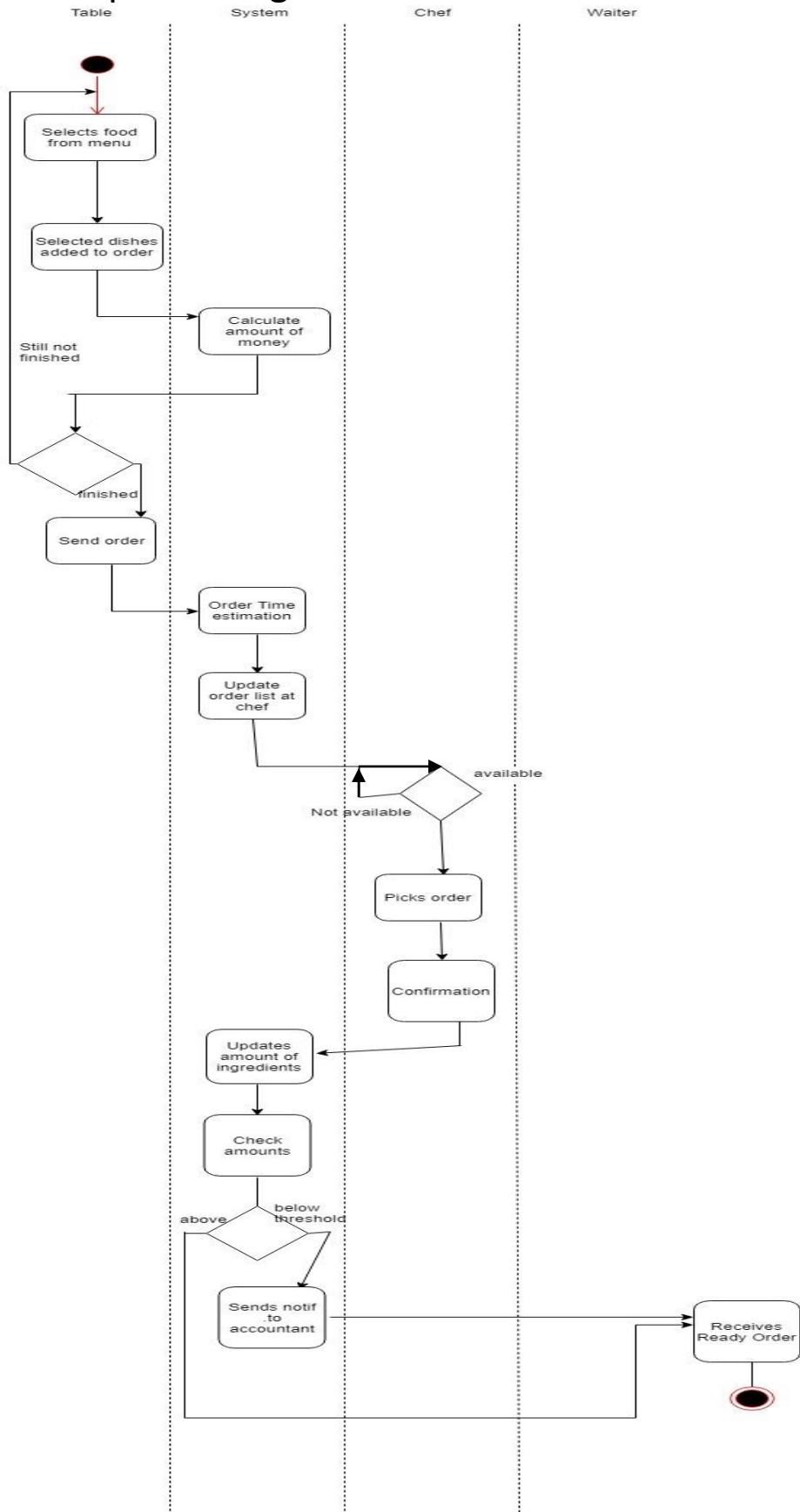
Scenario 16-17



Scenario 22-23-24



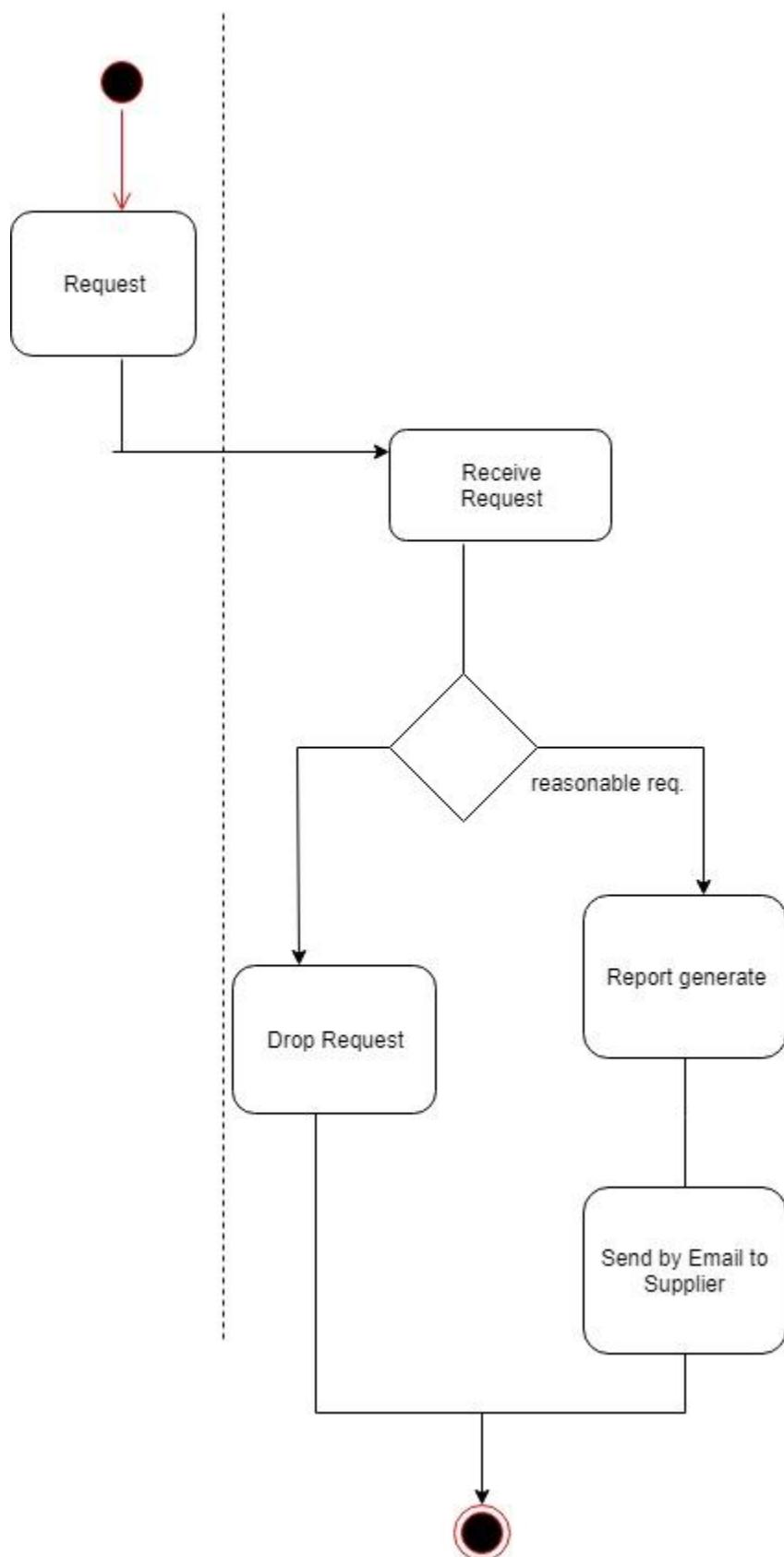
## Order processing



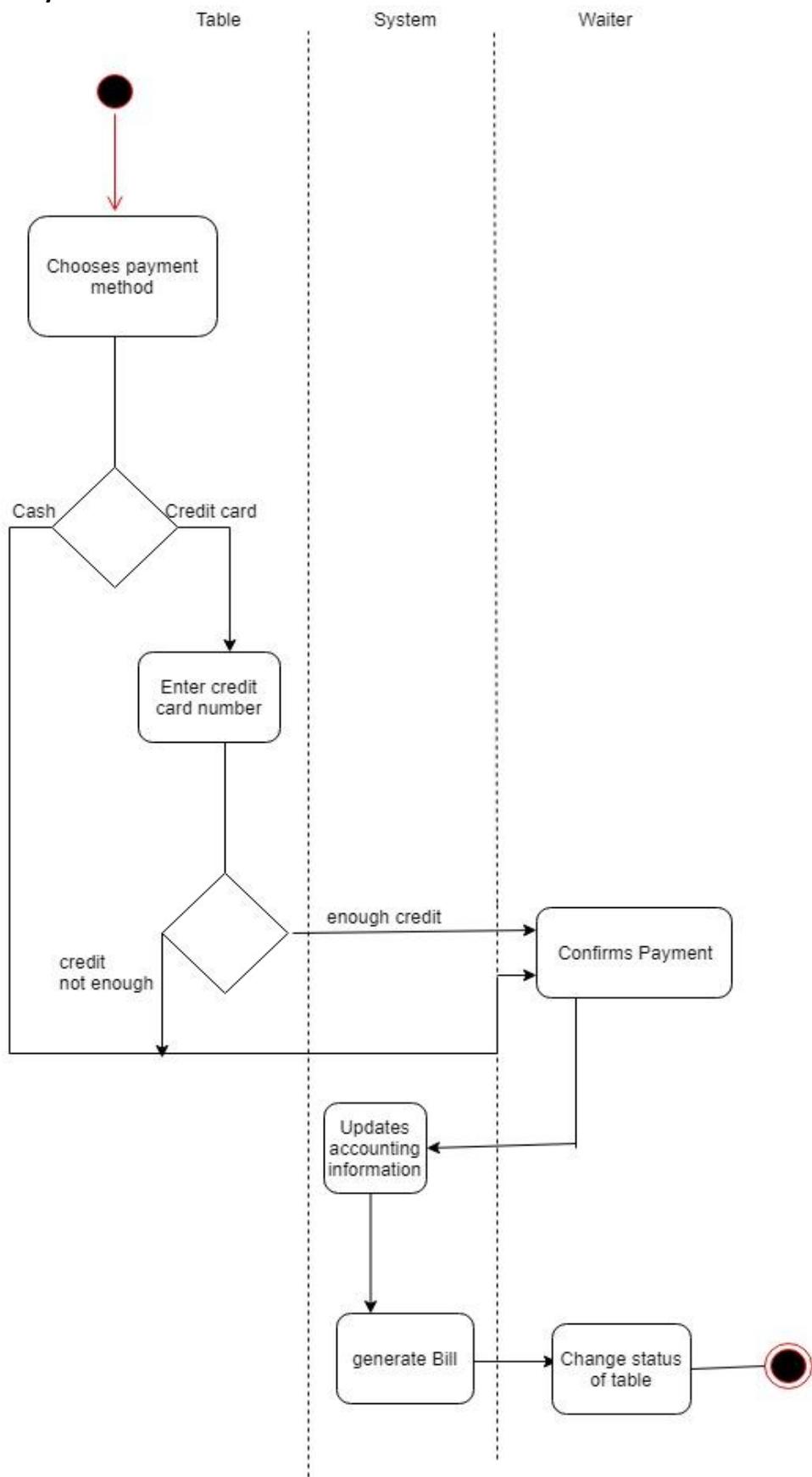
## Ordering Equipment

Chef

Accountant

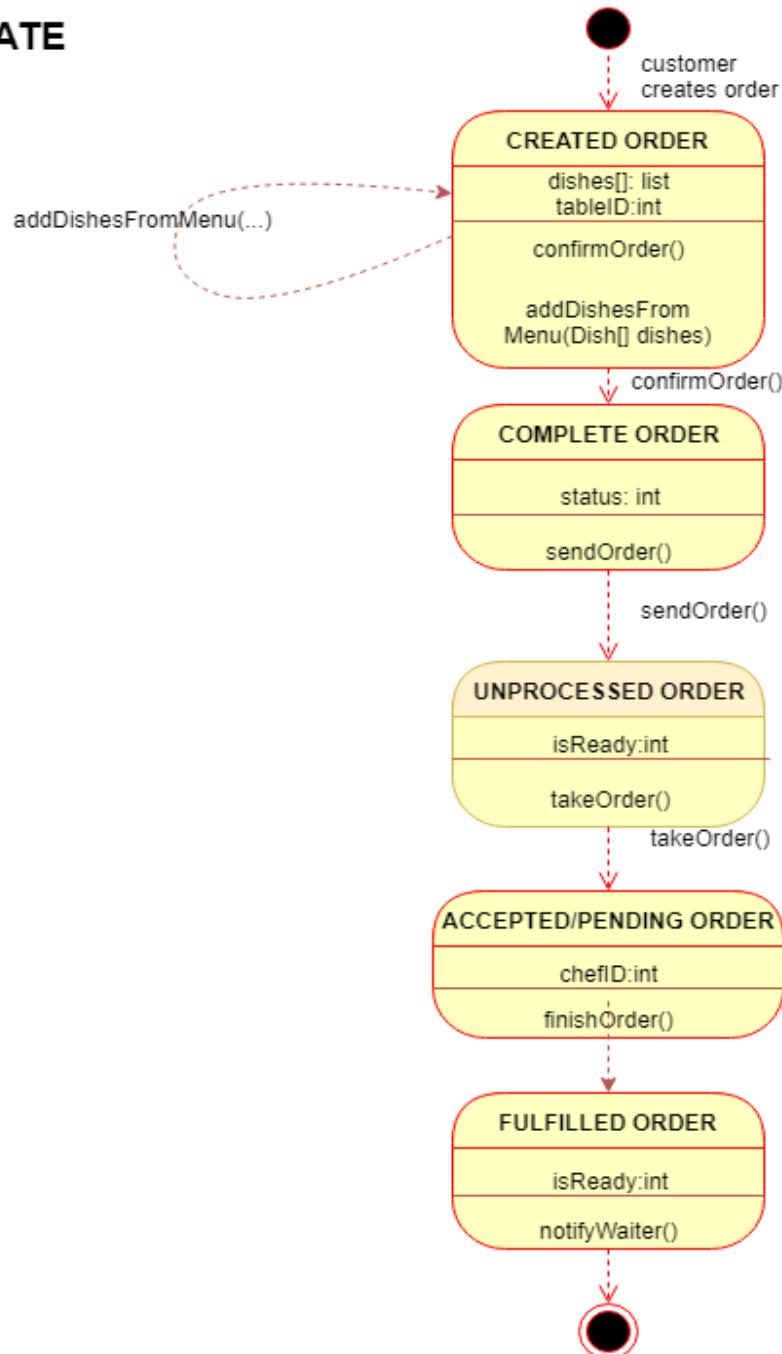


## Payment

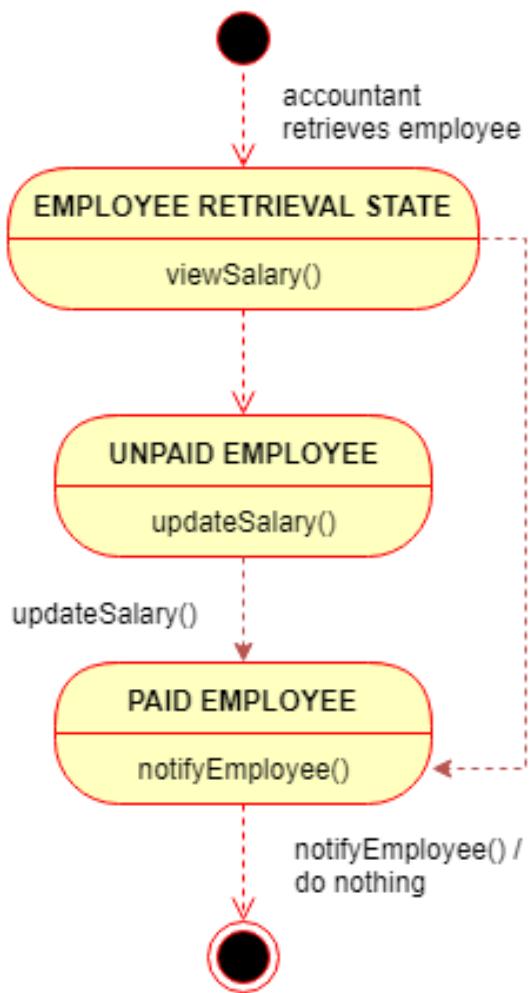


#### 4.2.3 State Diagrams

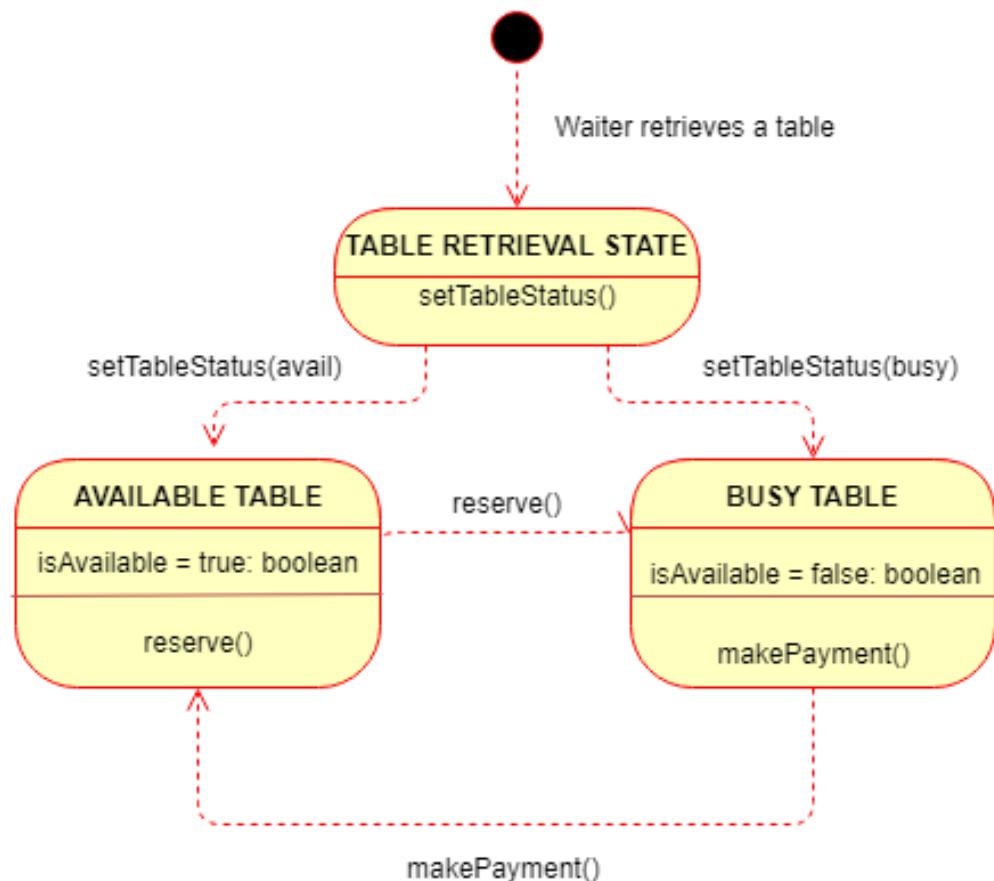
### ORDER STATE



## SALARY UPDATE



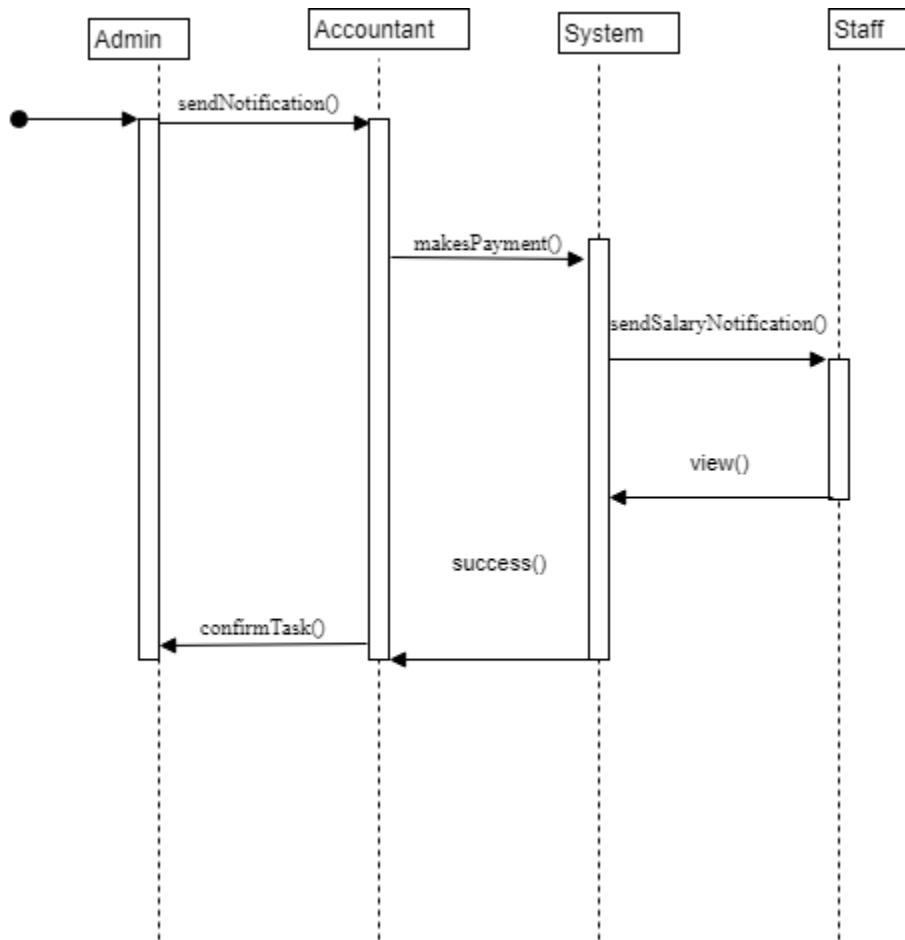
## TABLE STATE



#### 4.2.4 INTERACTION DIAGRAMS

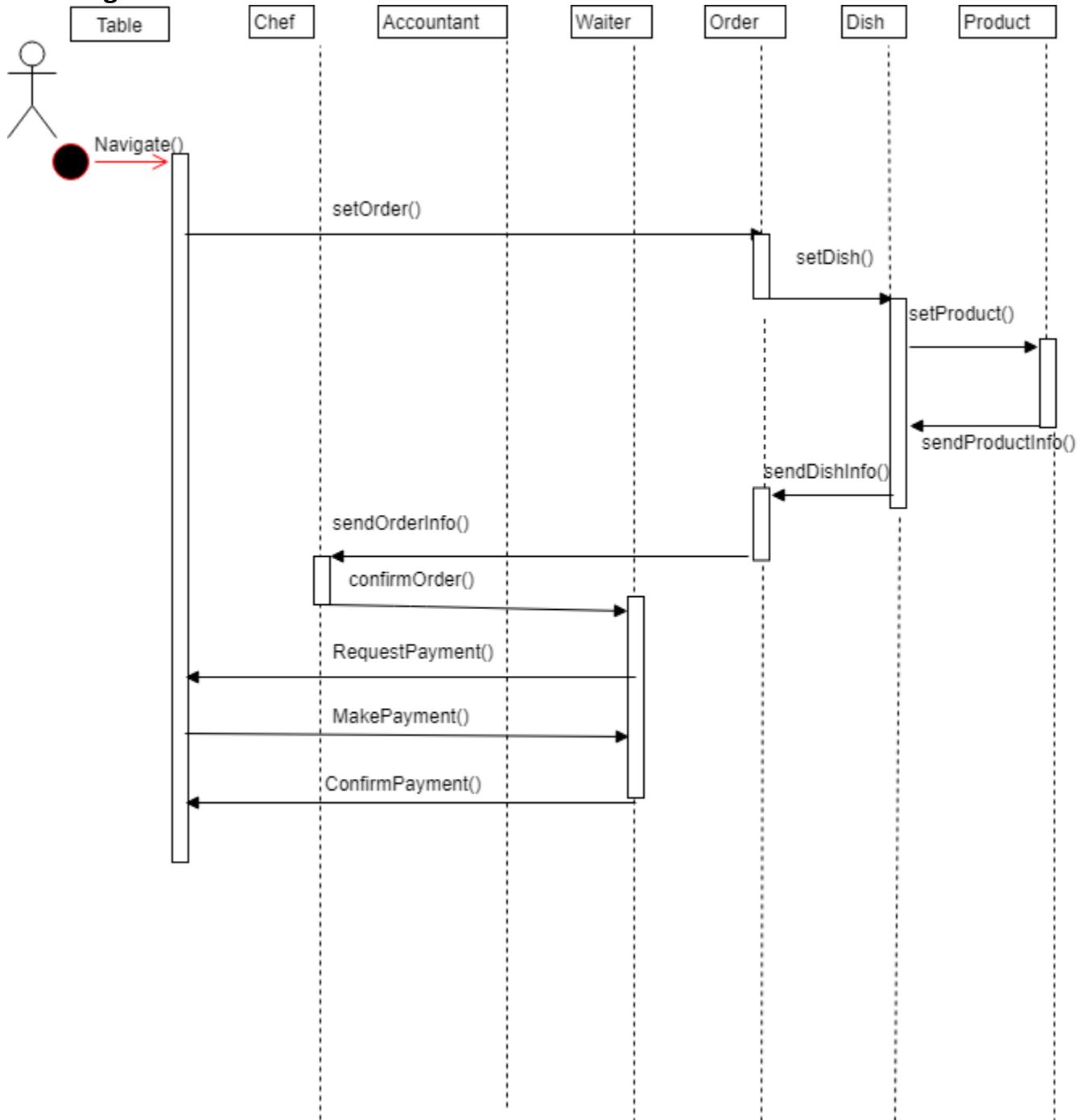
##### 4.2.4.1 Sequence Diagrams

Salary System

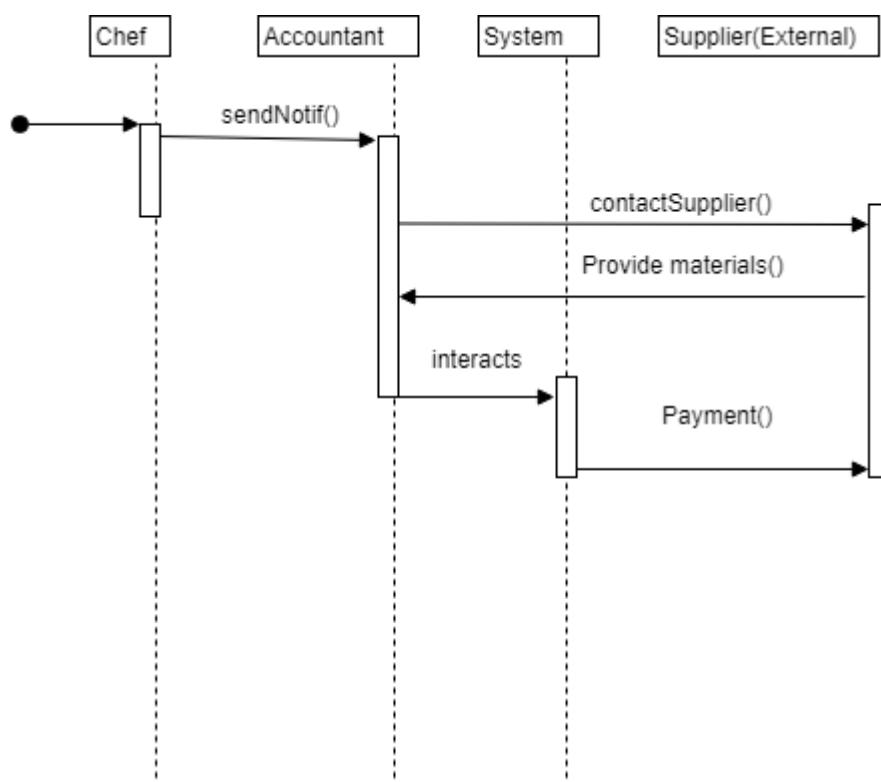


## RMS Requirements Specification

### Ordering

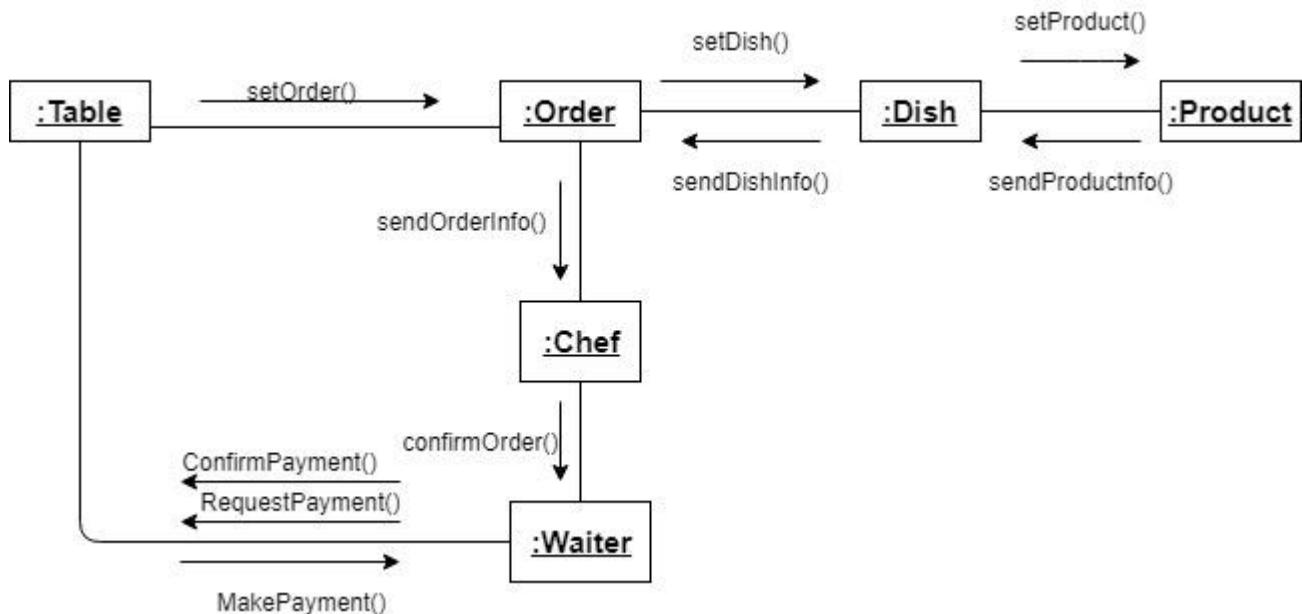


## Getting products from suppliers

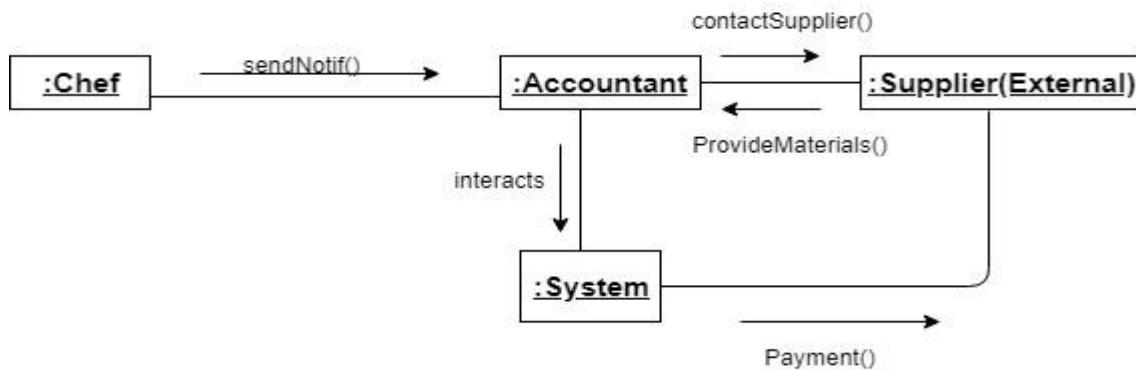


#### 4.2.4.2 Collaboration Diagrams

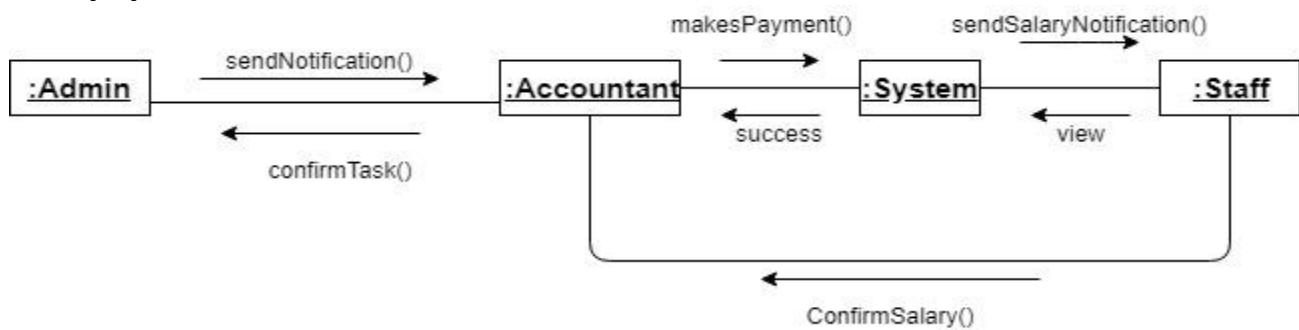
##### Ordering



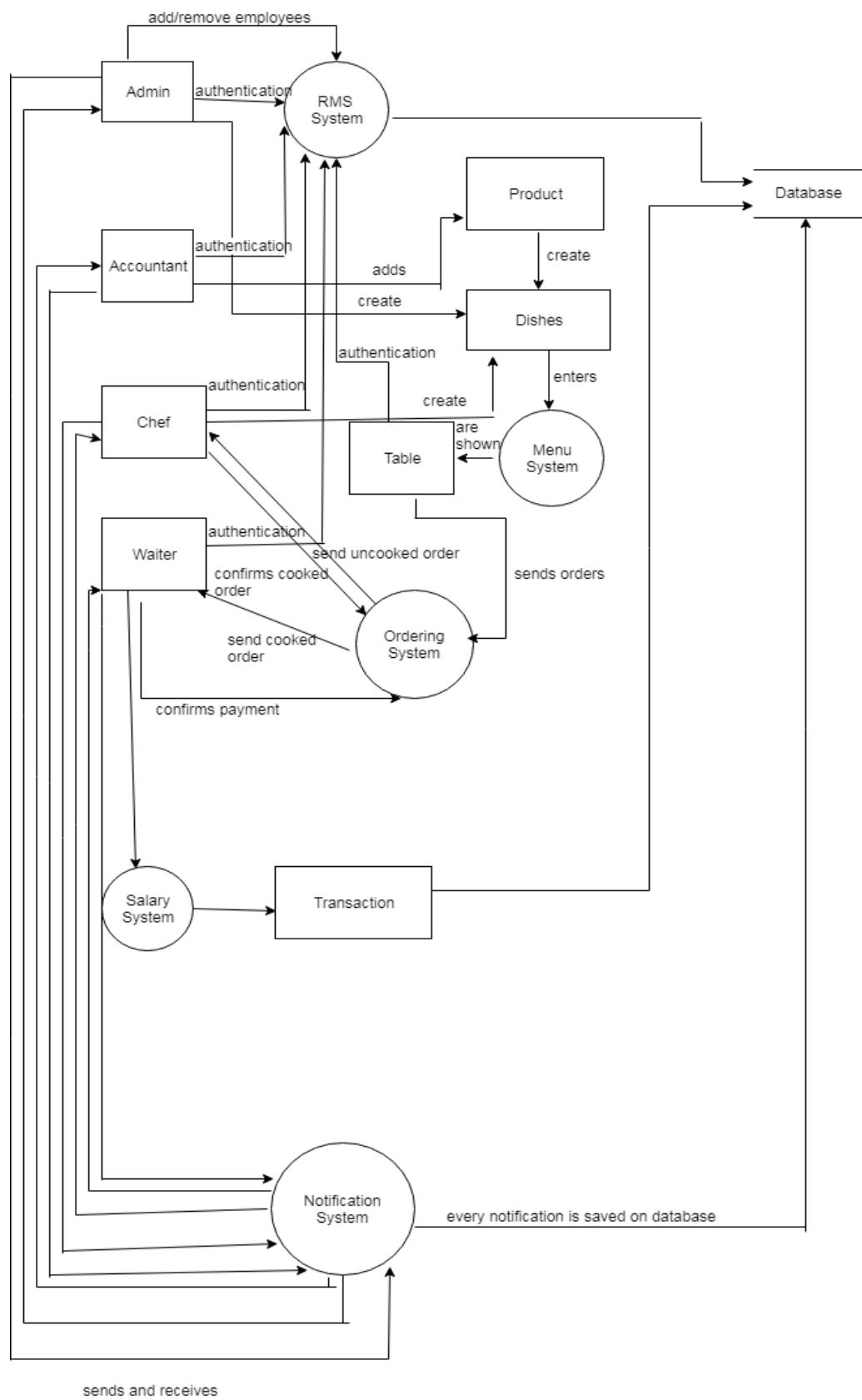
##### Getting products from suppliers



##### Salary system

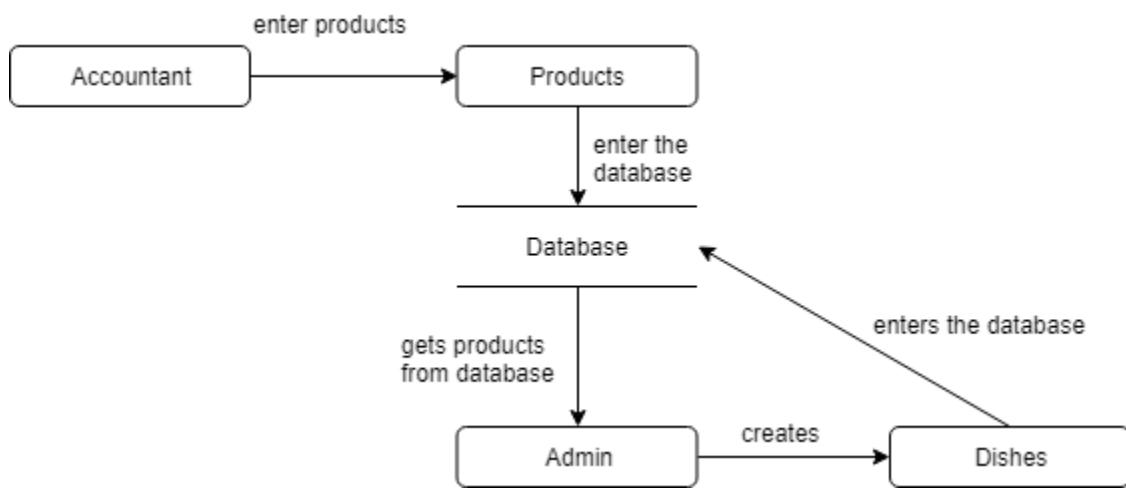


### 4.3 DATA FLOW DIAGRAM

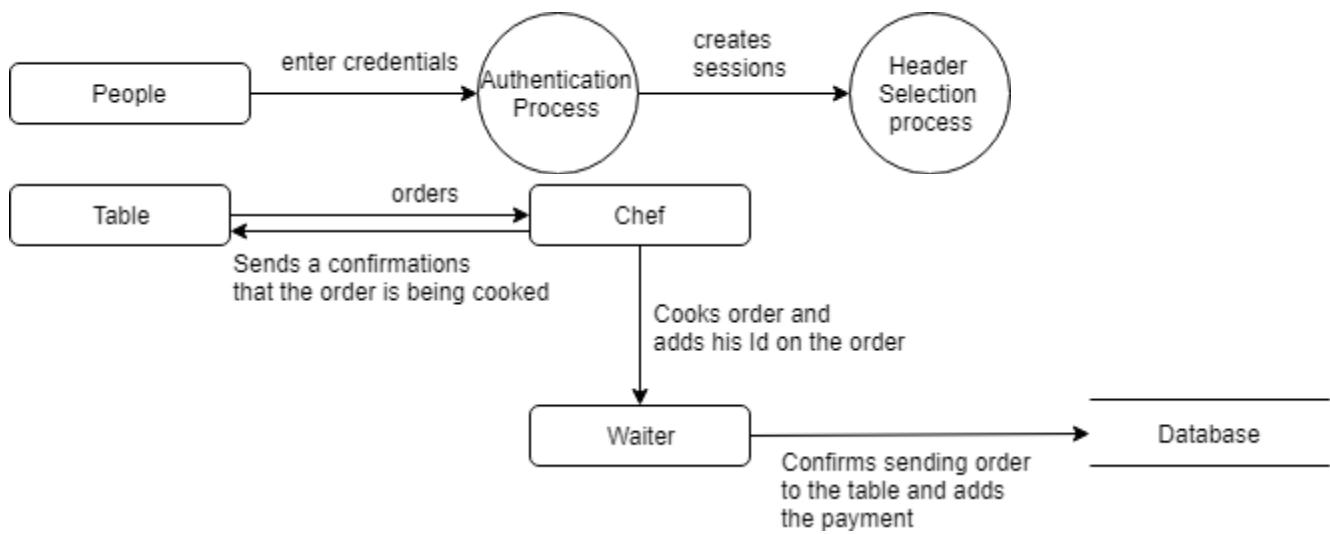


## RMS Requirements Specification

### Add on menu

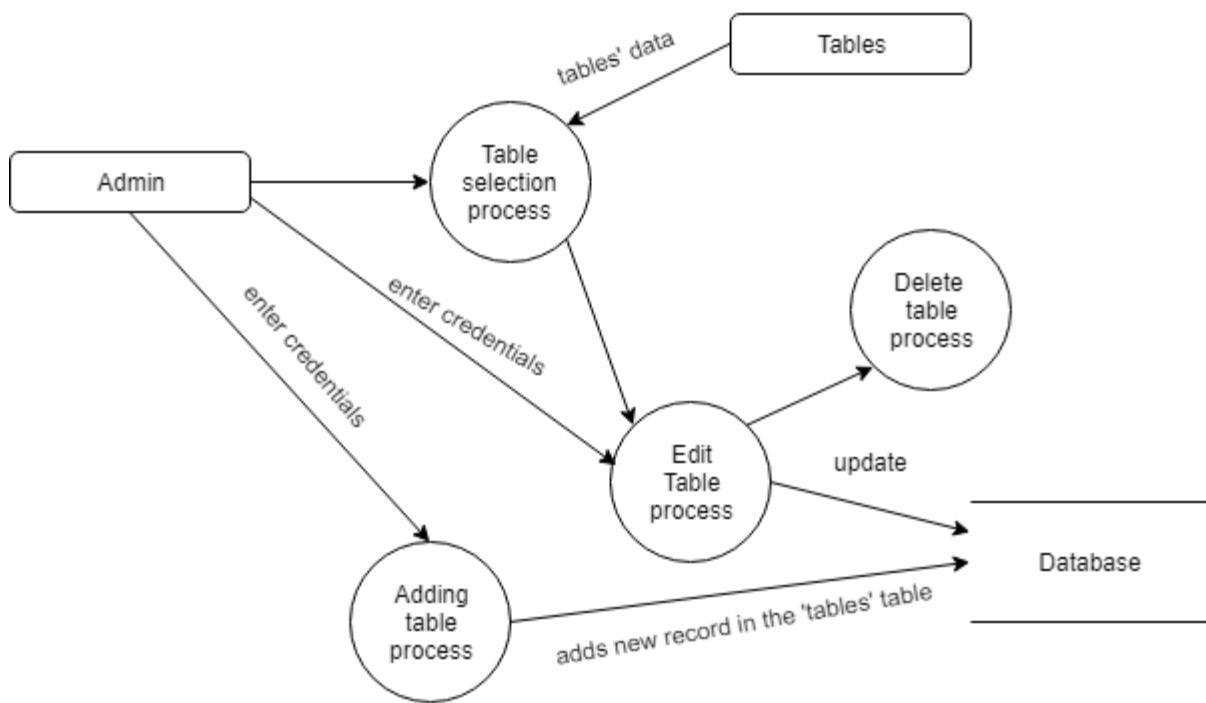


### Log in

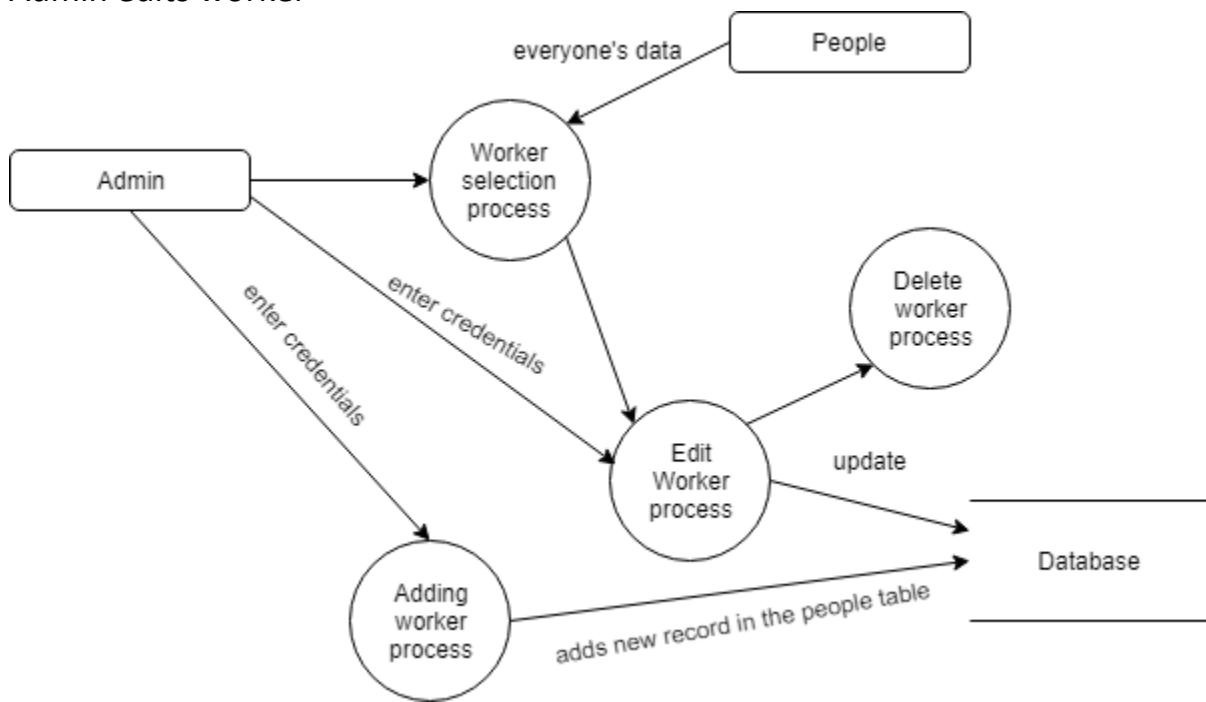


### Admin edits tables

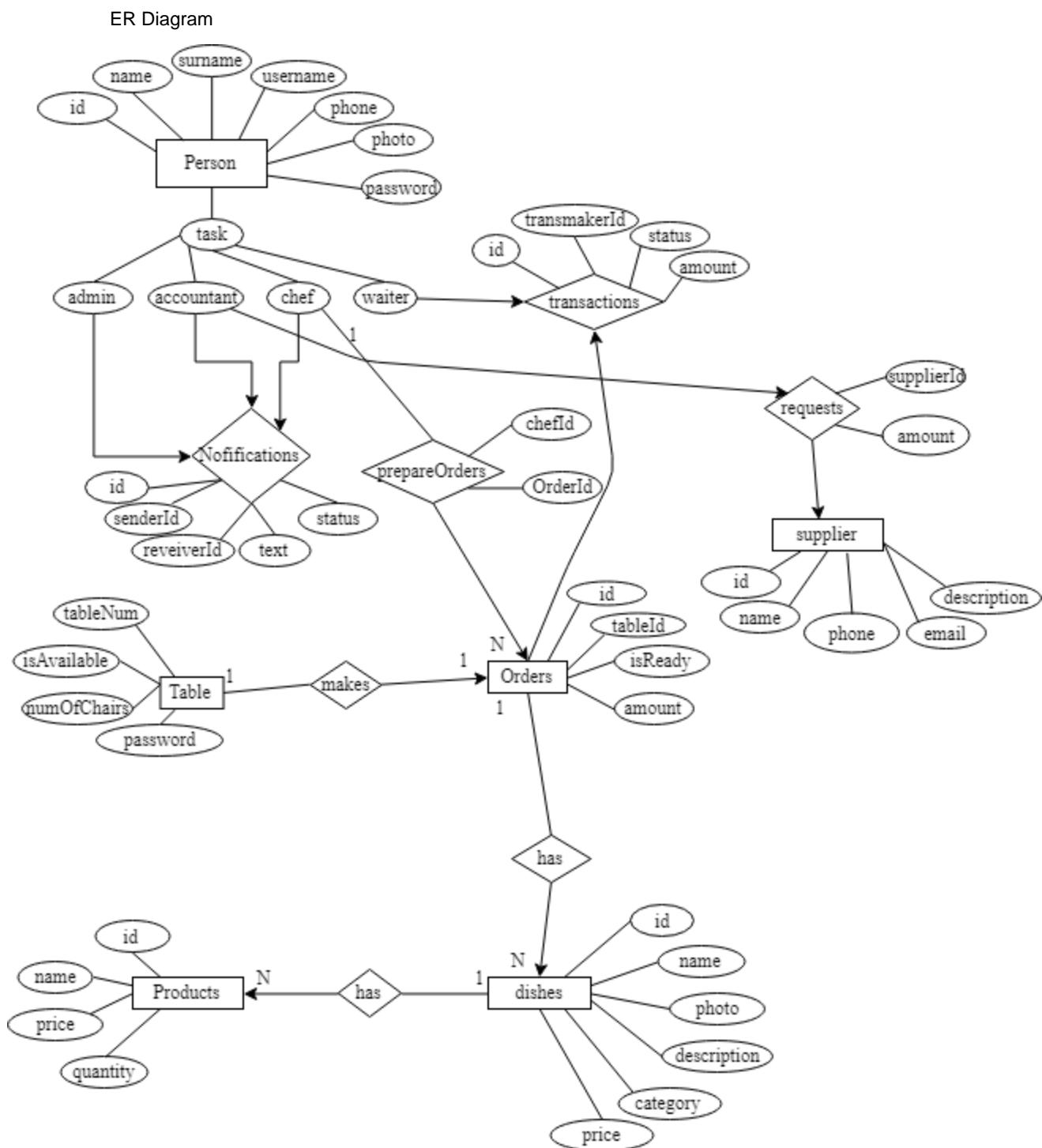
### RMS Requirements Specification



Admin edits worker

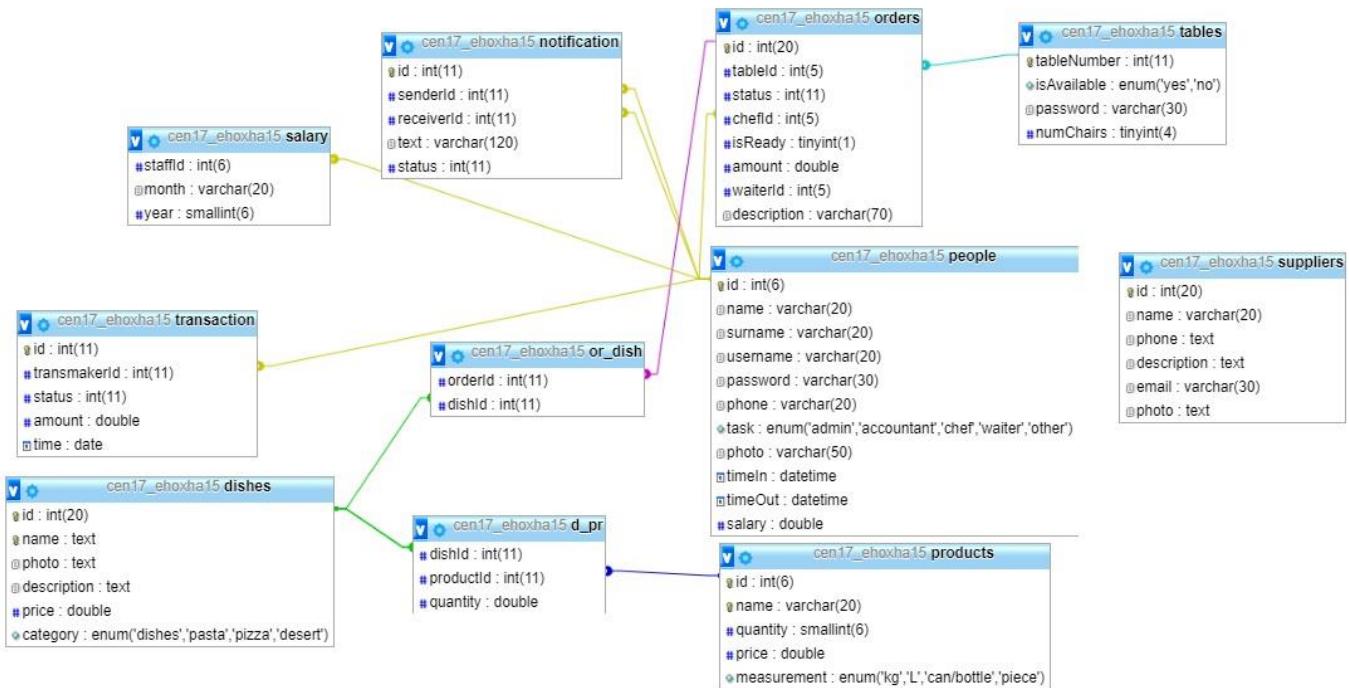


#### 4.4 ERD + Database design



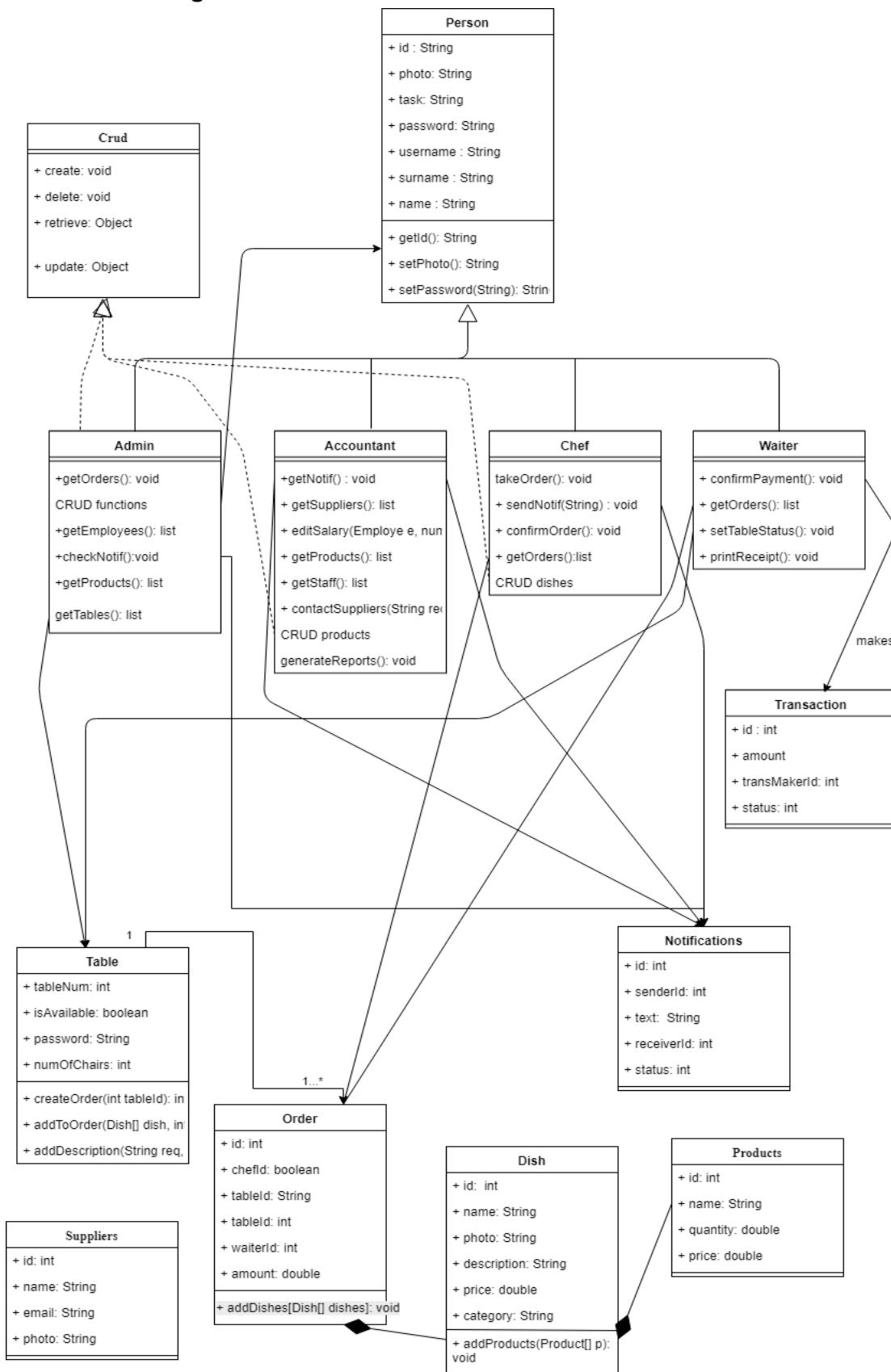
## RMS Requirements Specification

### DATABASE DESIGN



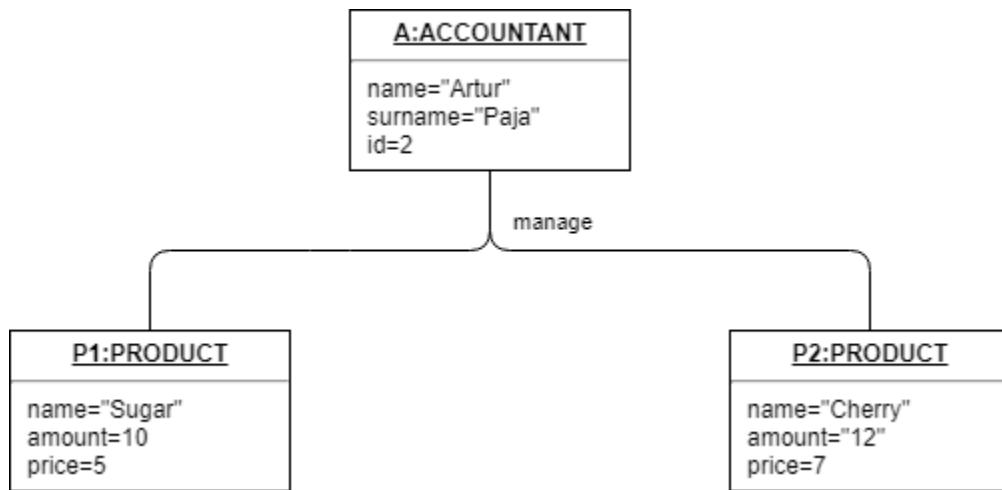
## 4.5 STRUCTURAL DIAGRAMS

### 4.5.1 Class Diagram

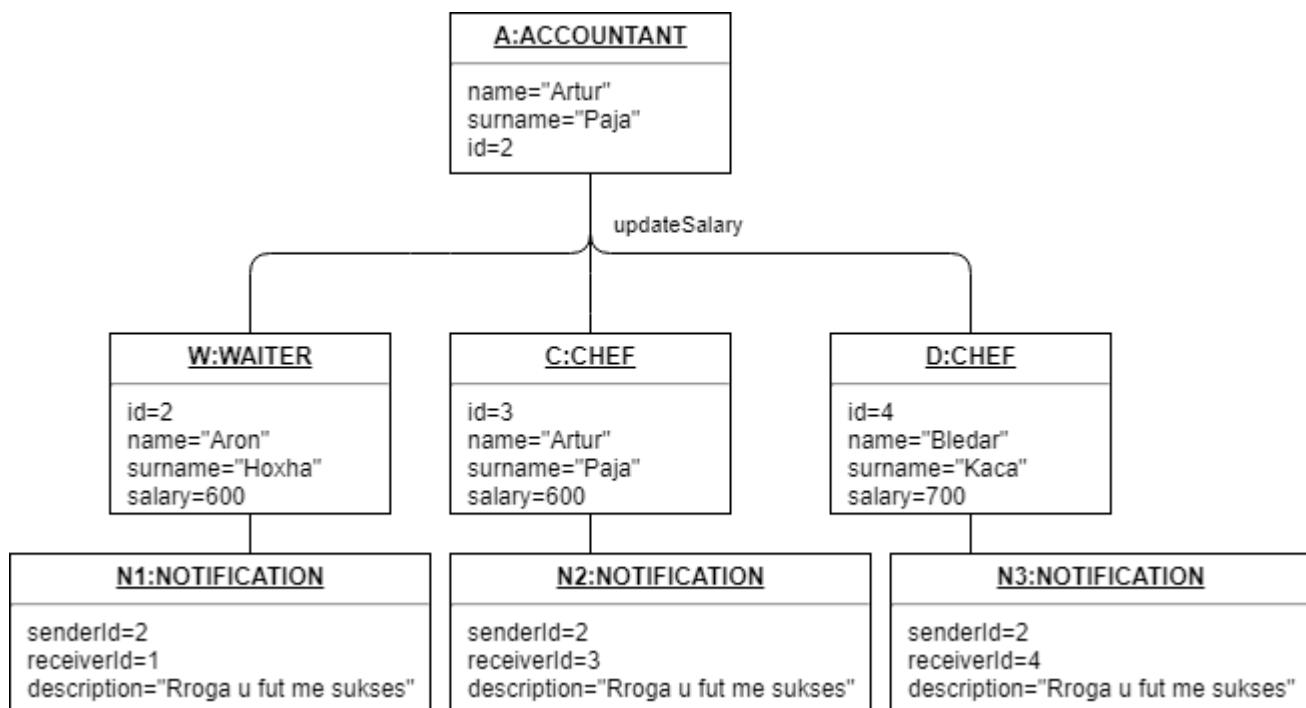


#### 4.5.2 Object Diagrams

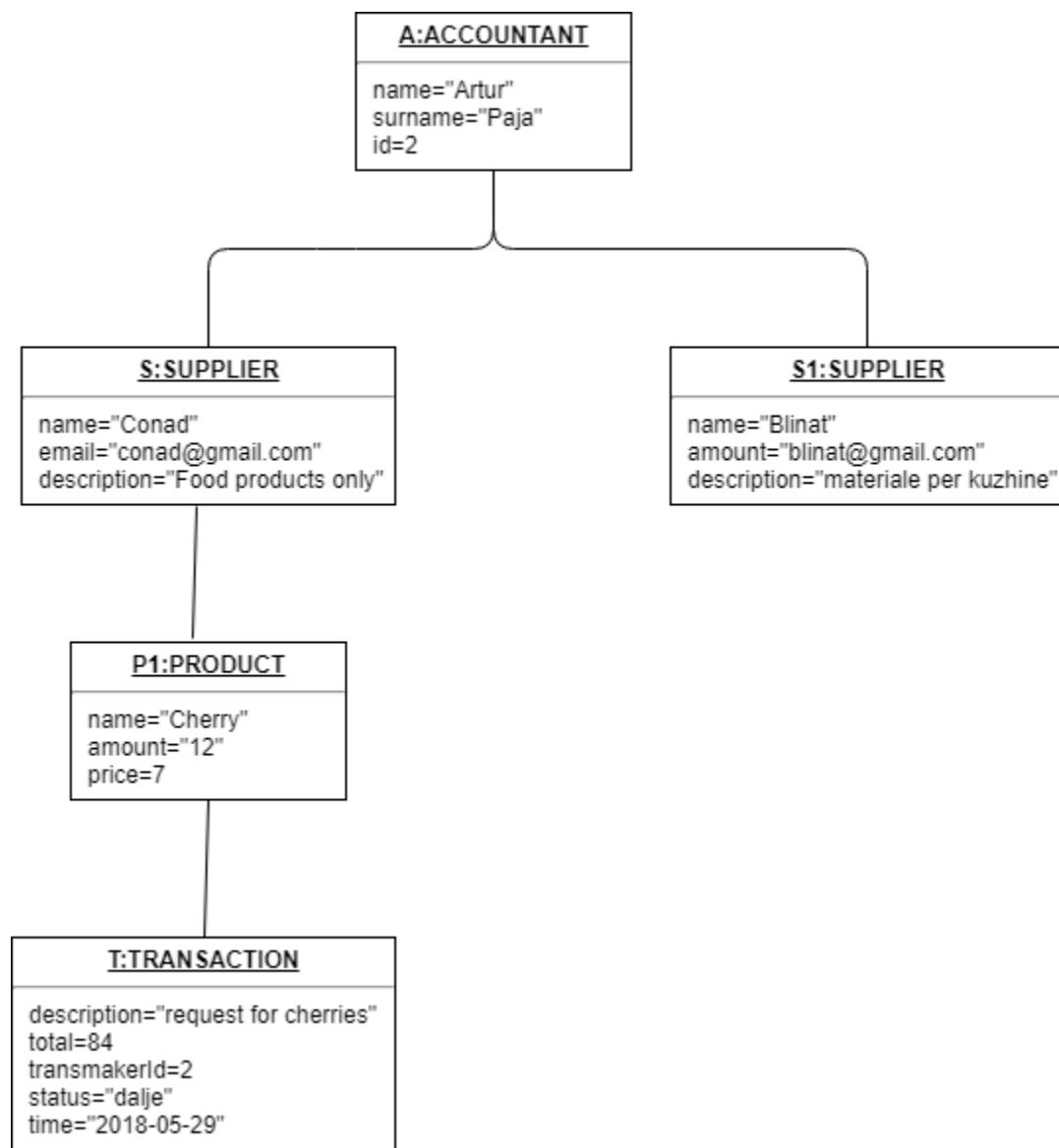
Accountant – Products



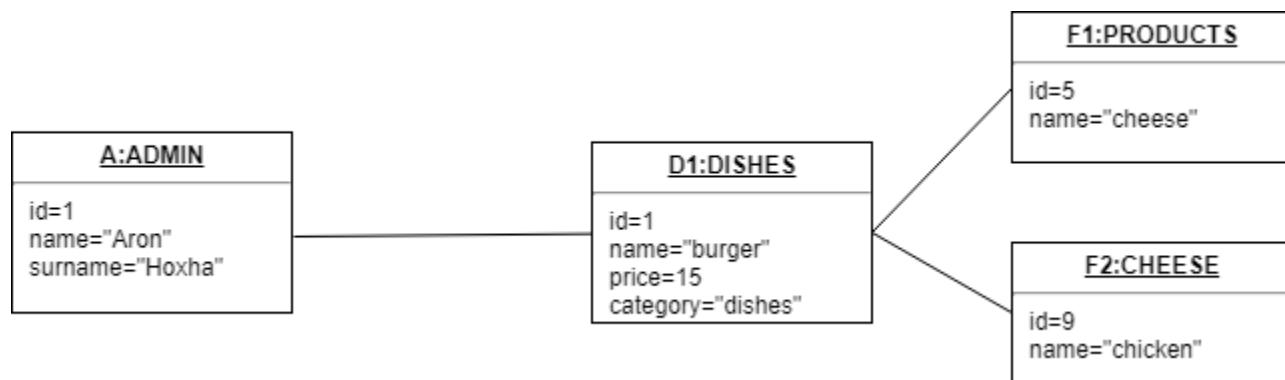
Accountant – salary – notification



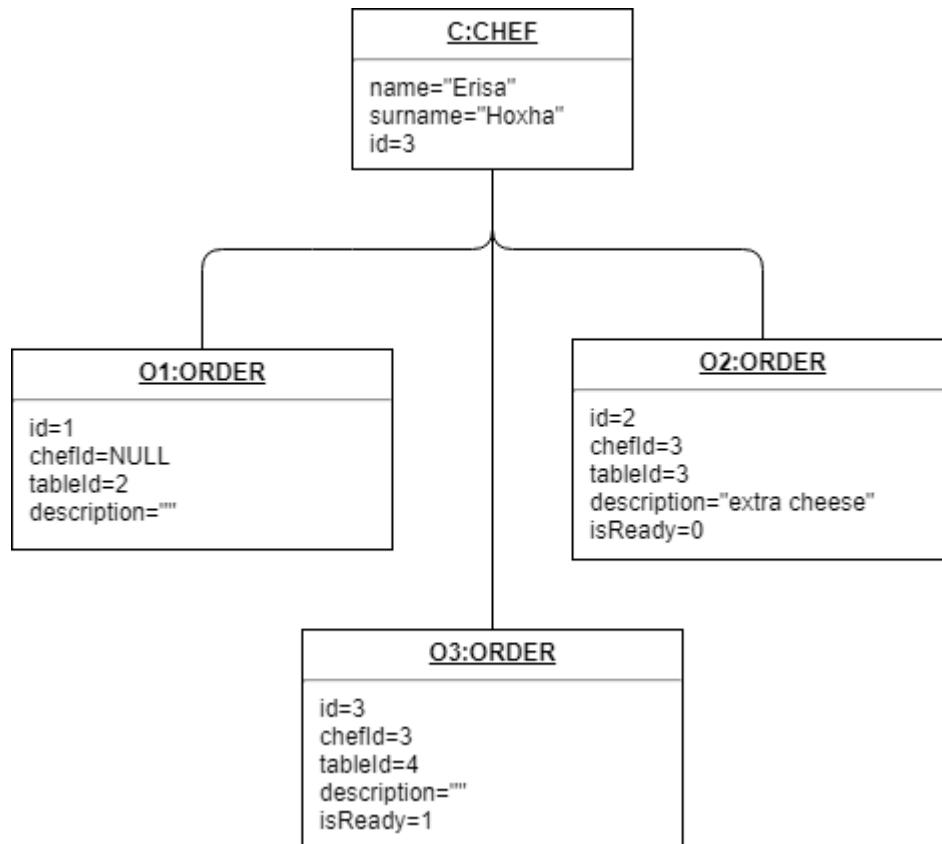
## Accountant-supplier-product-transaction



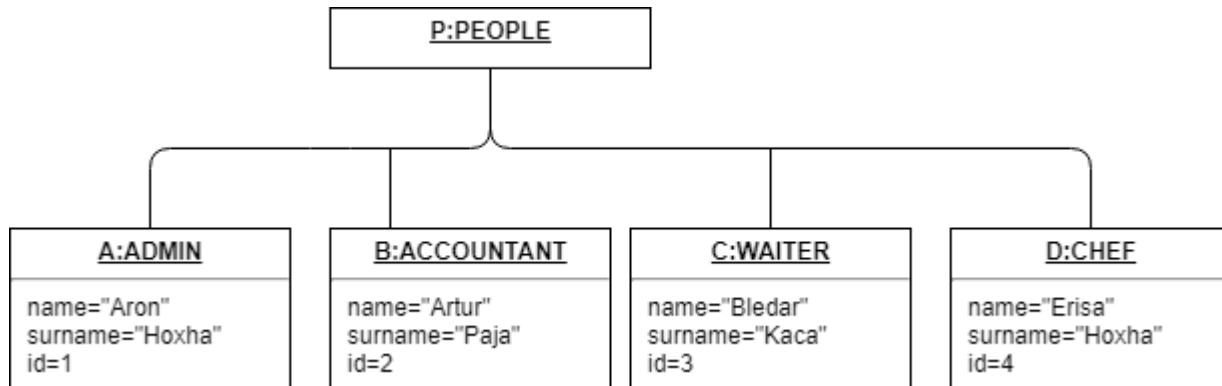
### Admin-dish-products



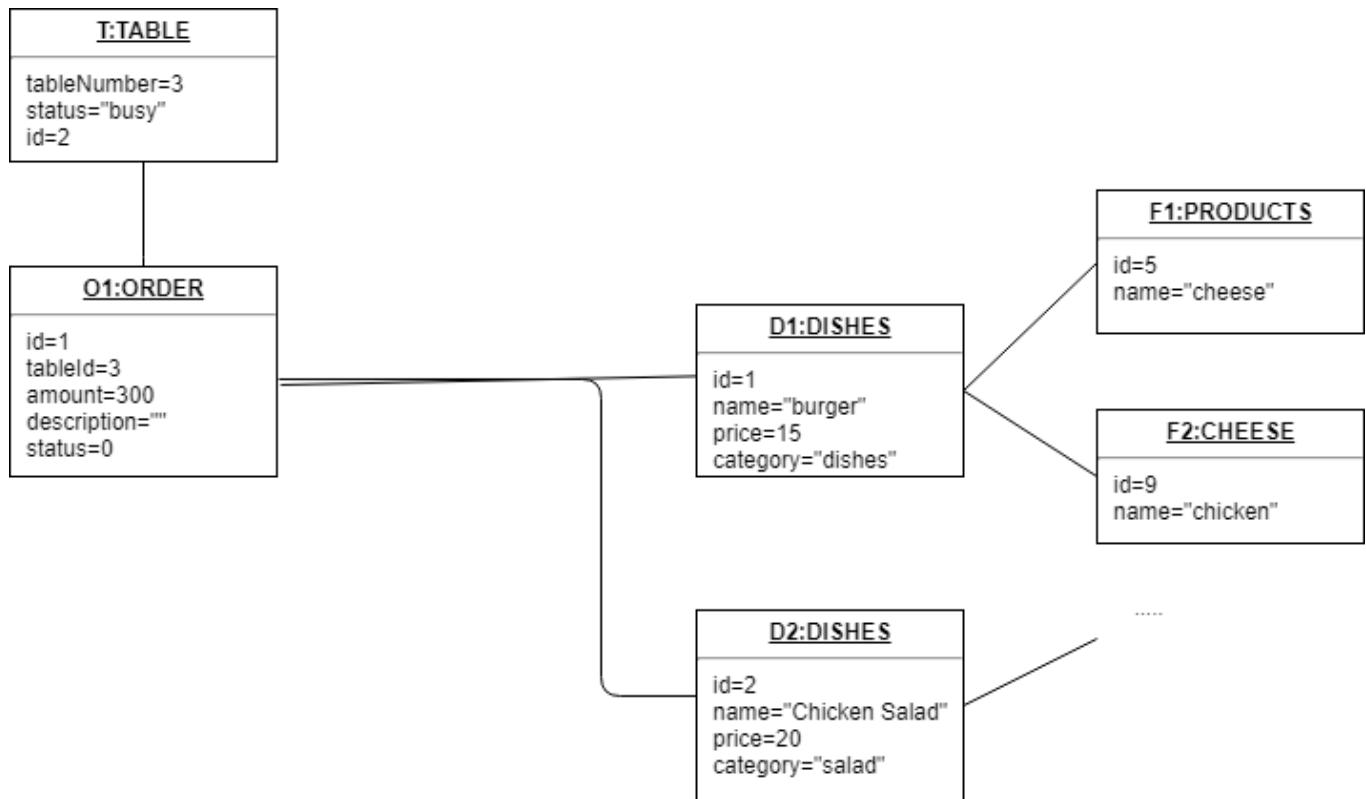
### Chef – order



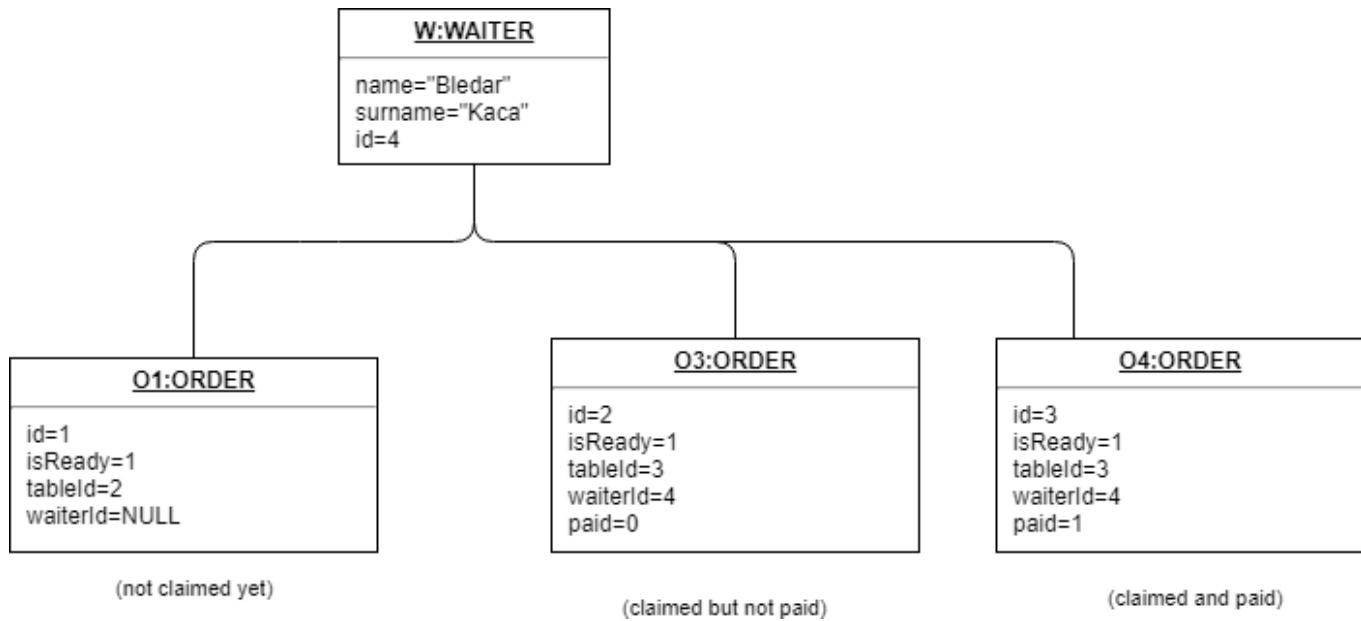
## People – Static



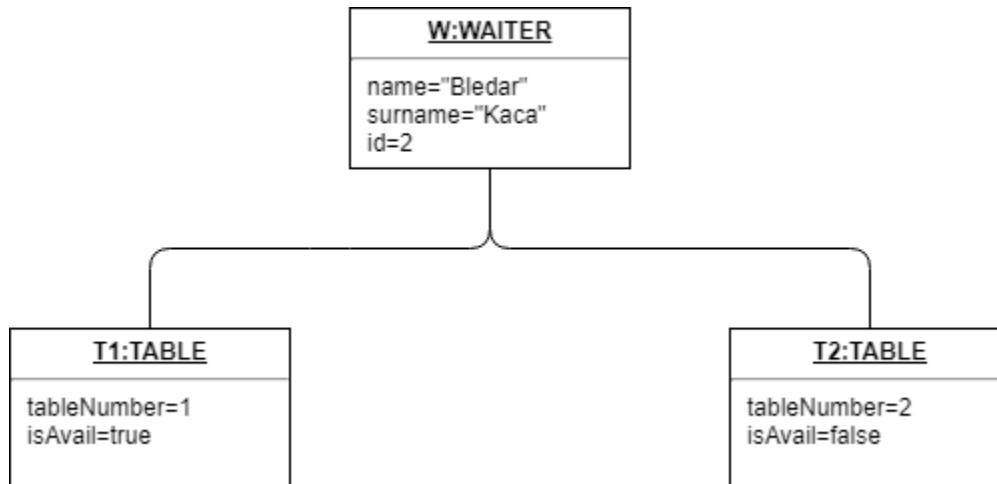
## Table-order-dishes-products



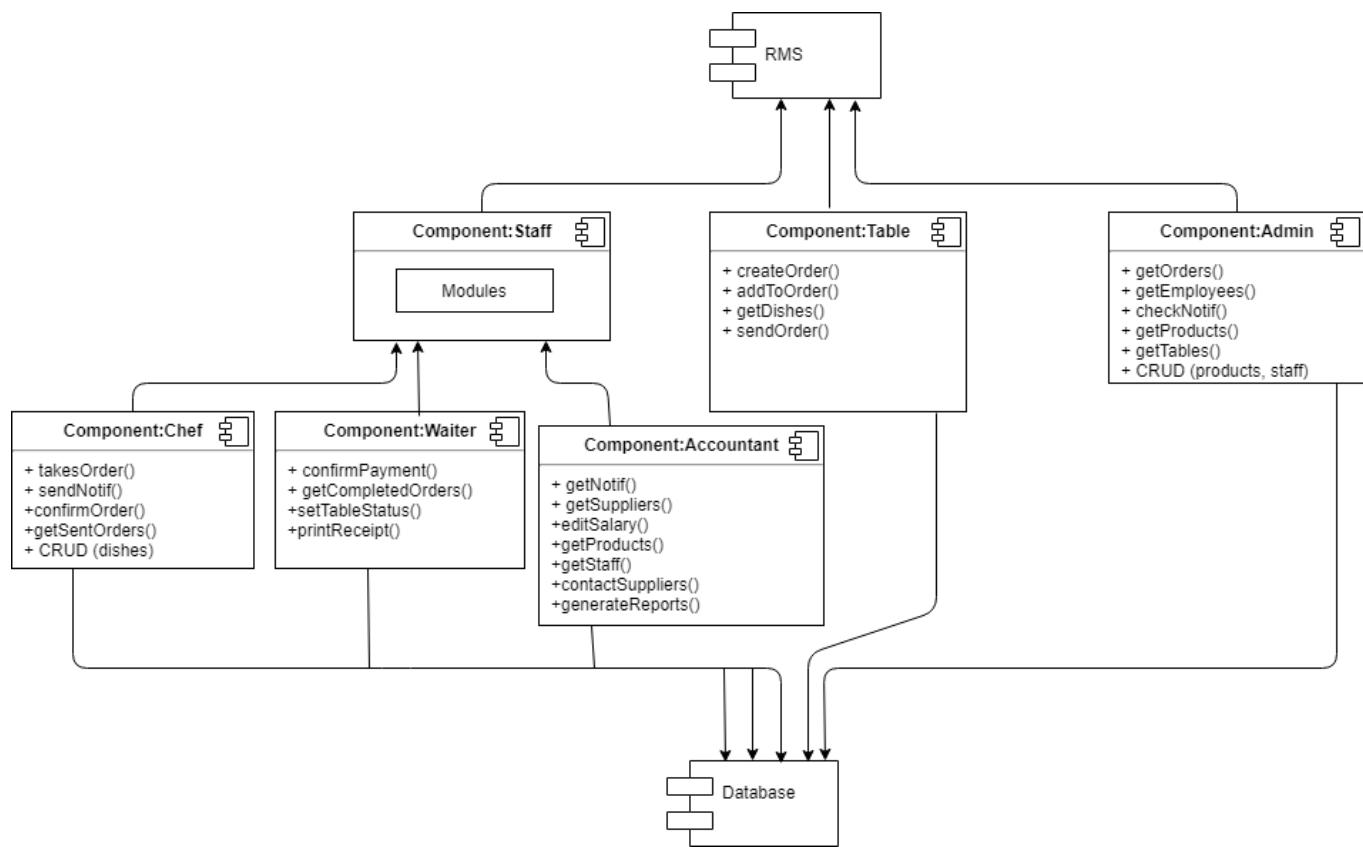
### Waiter – order



### Waiter – table

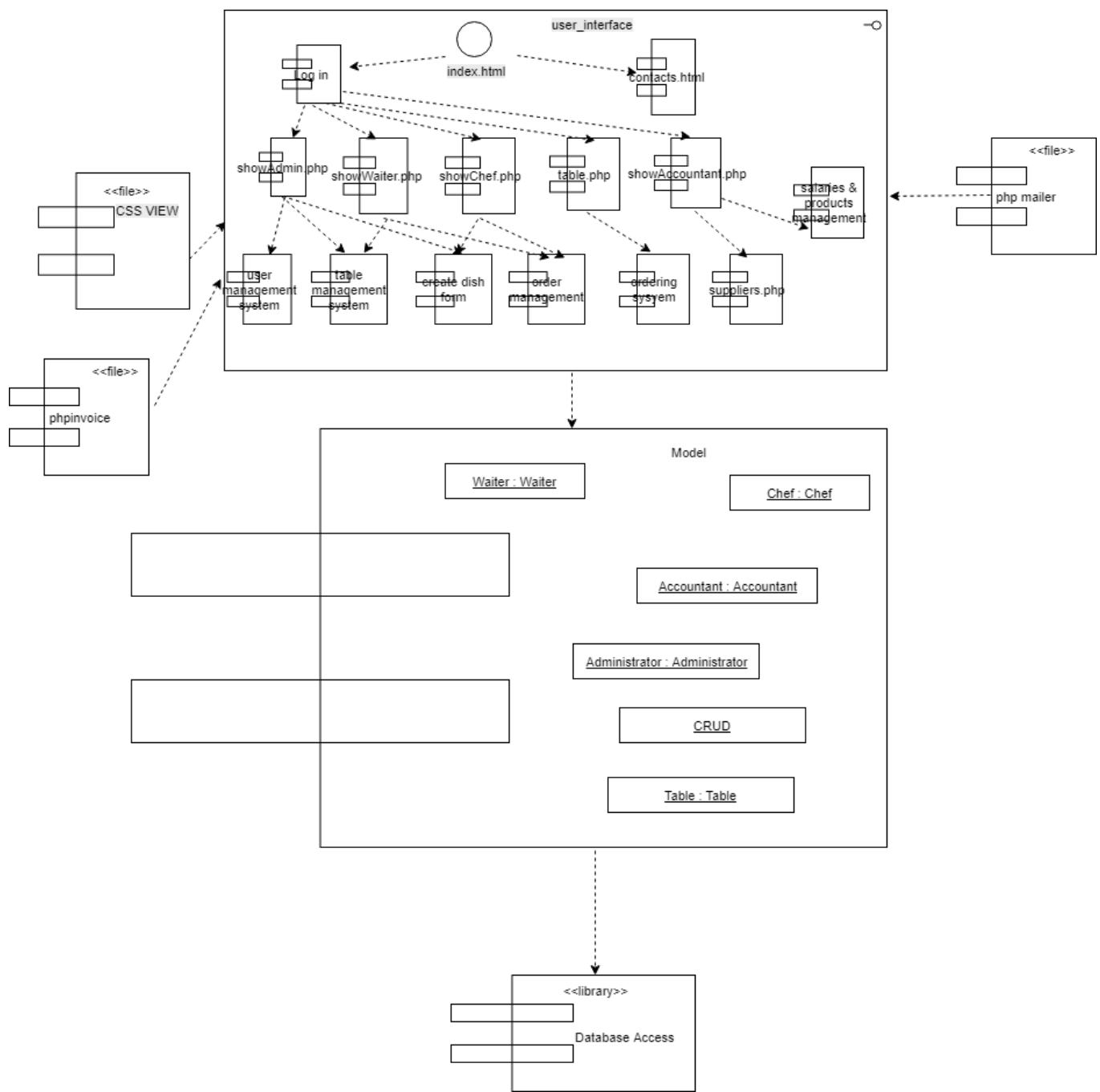


#### 4.5.3 Component Diagrams



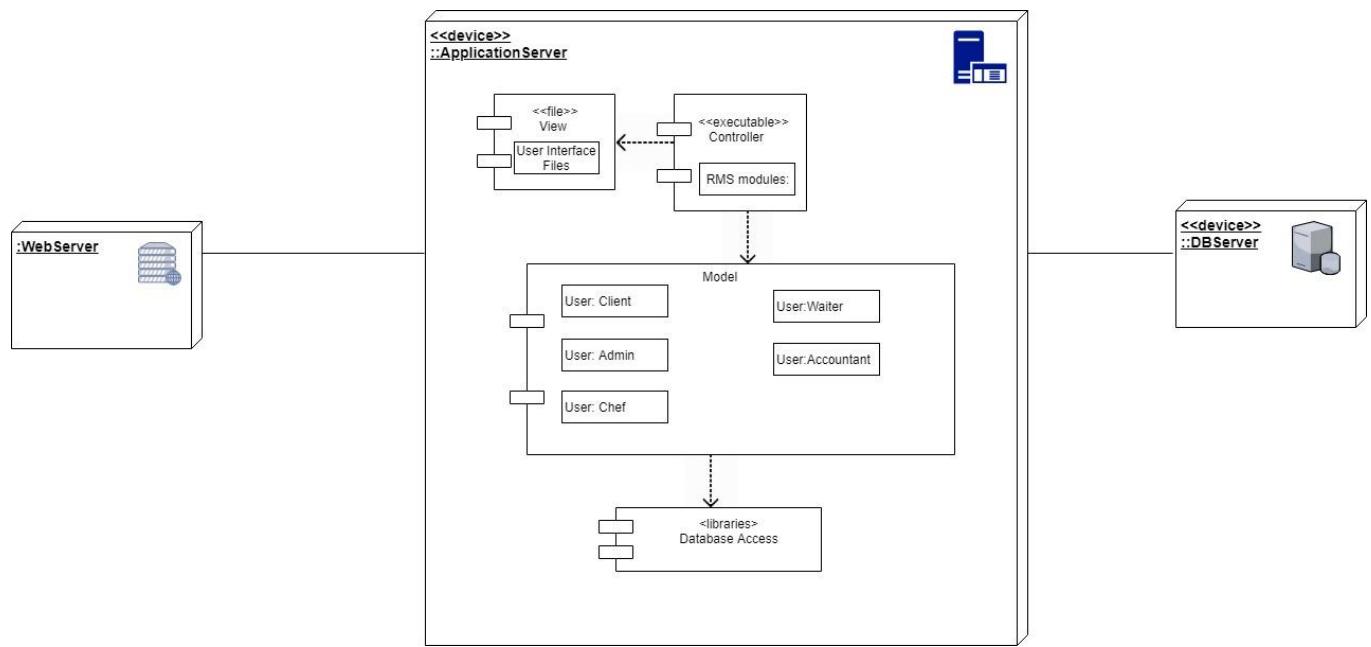
## RMS Requirements Specification

### Component Diagram 2



## RMS Requirements Specification

### 4.5.4 Deployment Diagram



## 5. IMPLEMENTATION

### Programming language

The programming language we used for our software system is PHP. There are many reasons why we opted for PHP. One of the most important is the high performance in speed. PHP was designed for very Rapid Web-Application Development tool. If it takes about 3 months to code a web application in C++, then using PHP you can develop the same web application in just 4 days! And then with zend optimizer, the speed of execution of PHP will be very close to that of equivalent C++ program!! Hence, there is really no advantage in using C/C++ for web development. PHP itself is written in 100% "C" language. You can very rapidly develop web applications in PHP as compile and link is eliminated in PHP scripting language.

The chosen architecture is server-side HTML web application. The client-side programming language used are: HTML 5, CSS, JavaScript, server-side PHP 7.1.10

Another important reason why we chose PHP is that PHP applications are very stable and do not depend on the browser technologies unlike Javascript applications which depend on browsers. PHP will give you the freedom to select any server platform. The browser does not know that the HTML page is generated by PHP.

PHP is a good choice for database connectivity since it has excellent database connectivity to all SQL database servers.

It has partial support for Object oriented features. PHP has C++, Perl, Javascript like syntax features and has programs like 'ptags/ctags' to navigate the source code. PHP runs on all Unixes, Linux, Windows 95/NT/2000 and is more powerful than ASP, JSP and others. PHP has a very large user base and developer base.

### Database Connectivity

Database used for this system was MySQL. MySQL is a stable, reliable and powerful solution with advanced features like the following:

#### 1. Data Security

MySQL is the most secure and reliable database management system used in popular web applications like WordPress, Drupal, Joomla, Facebook and Twitter. So we saw this aspect as really beneficial.

#### 2. On-Demand Scalability

MySQL offers great scalability to improve the management of apps using a smaller footprint even in massive warehouses that stack terabytes of data. On-demand flexibility is the star feature of MySQL that's why we chose for our software.

#### 3. High Performance

MySQL features a distinct storage-engine framework that facilitates system administrators to configure the MySQL database server for a flawless performance.

4. Round-the-clock Uptime

MySQL is assured to be 24X7 uptime and offers a wide range of solutions like specialized cluster servers and master/slave replication configurations.

5. Comprehensive Transactional Support

MySQL is on the top of robust transactional database engines available on the market. With features like complete atomic, consistent, isolated, durable transaction support, it is the go-to solution for full data integrity.

6. Complete Workflow Control

MySQL can be downloaded and installed in less than 30 minutes which means it is really easy to be used for everyone.

7. Reduced Total Cost of Ownership

The dependability and ease of management that features MySQL save your troubleshooting time which is otherwise wasted in fixing downtime issues and performance problems.

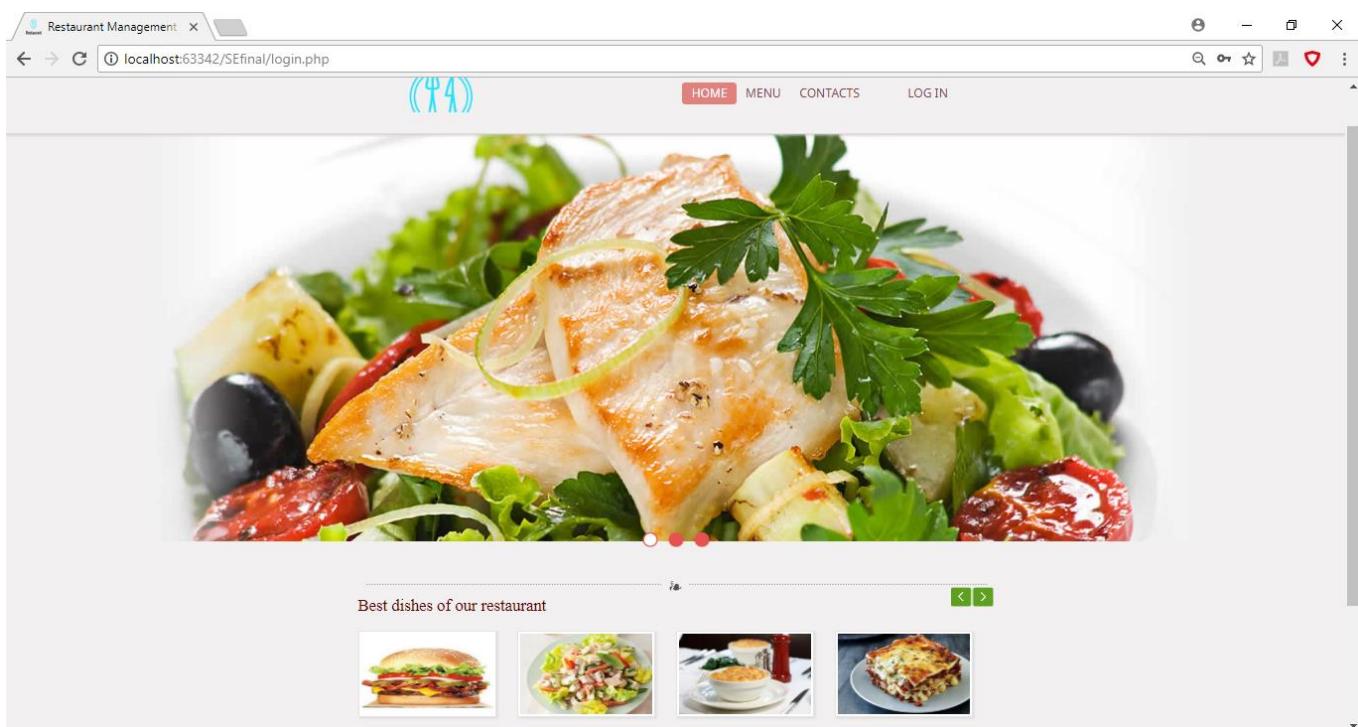
8. The Flexibility of Open Source

MySQL provides a trusted and a secure processing which makes the handling of the data more efficient. It makes maintenance, debugging and upgrades fast and easy while enhancing the end-user experience.

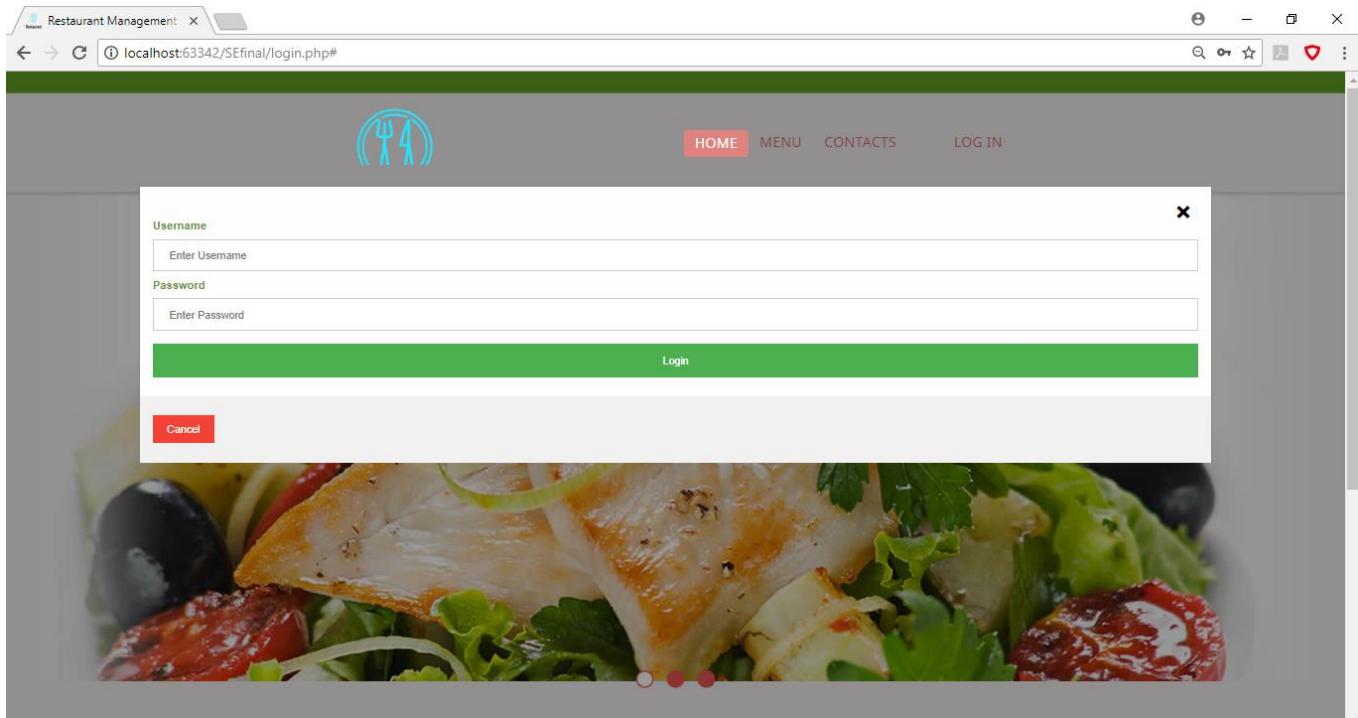
## RMS Requirements Specification

### Screenshots

#### -Home page



#### - Login user



## RMS Requirements Specification

- Login table

Restaurant Management

HOME MENU CONTACTS LOG IN

Table Number  
Enter table number

Table Password  
Enter Password

Login

Cancel

- Contacts page

Restaurant Management

HOME CONTACTS

Get in touch

ADDRESS

Rr. Tiranë-Rinas, Km. 12  
1032 Vorë  
Tirana, Albania

EMAIL

ehoxha15@epoka.edu.al  
agugu15@epoka.edu.al  
fgurra15@epoka.edu.al  
gshllaku15@epoka.edu.al  
mhysa15@epoka.edu.al

PHONE

+355 4 2232 086  
+355 4 2232 086

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## RMS Requirements Specification

- Admin page

The screenshot shows a web browser window titled "Restaurant Management" with the URL "localhost:63342/SEfinal/admin.php#". The page displays a welcome message "Welcome Aron Hoxha." and a navigation menu with links: ADD ON MENU, NOTIFICATIONS, STAFF, TABLES, PRODUCTS, ORDERS, TRANSACTIONS, and LOG OUT.

Below the menu is a table listing four workers:

Name	Surname	Username	Photo	ADD WORKER
Aron	Hoxha	aron.hoxha		<a href="#">OPEN PROFILE</a>
Marjon	Hala	marjon.hala		<a href="#">OPEN PROFILE</a>
Marlinda	Sejdini	marlinda.sejdini		<a href="#">OPEN PROFILE</a>
Kevi	Doda	kevi.doda		<a href="#">OPEN PROFILE</a>

- Add employee

The screenshot shows a web browser window titled "localhost:63342/SEfinal/add\_worker.php" with a green "Back" button in the top left corner. The main title is "Add worker". The form contains the following fields:

Name	<input type="text"/>
Surname	<input type="text"/>
Phone number	<input type="text"/>
Add picture	<input type="file"/> Choose file   No file chosen
Category	<input type="text" value="Admin"/>
Salary	<input type="text"/>

At the bottom is a green "Submit" button.

## RMS Requirements Specification

### - Worker page

The screenshot shows a web browser window with the URL `localhost:63342/SEfinal/open_w.php?wid=2`. The page is titled "Worker Page". It displays the following staff information:

Name	Marjon
Surname	Hala
Username	marjon.hala
Password	9d61126748f303c385510c45eaf63f
Phone number	0698754321
Category	chef
Salary	300

Next to each data entry is a green "Edit" button. At the bottom left is a green "Delete worker" button. A profile picture of a man is displayed next to the name.

### - Tables viewed by admin

The screenshot shows a web browser window with the URL `localhost:63342/SEfinal/admin.php`. The page is titled "Restaurant Management". The top navigation bar includes links for ADD ON MENU, NOTIFICATIONS, STAFF, TABLES, PRODUCTS, ORDERS, TRANSACTIONS, and LOG OUT. The current user is "Aron Hoxha".

The main content area displays five tables, each represented by a blue icon:

Table	Status	Details
Table 1	It is available	Password is "table1" Number of chairs: 4
Table 2	It is available	Password is "table2" Number of chairs: 5
Table 3	It is available	Password is "table3" Number of chairs: 4
Table 4	It is available	Password is "table4" Number of chairs: 6
Table 5	It is available	Password is "table5" Number of chairs: 7

## RMS Requirements Specification

- Adding a new table

localhost:63342/SEfinal/add\_table.php

Back

### Adding a new table

Table number	
Table password	.....
Number of chairs	
<input type="button" value="Save table"/>	

- Admin sees products

Restaurant Management x

Welcome Aron Hoxha.

ADD ON MENU   NOTIFICATIONS   STAFF   TABLES   PRODUCTS   ORDERS   TRANSACTIONS  
LOG OUT

Name	Quantity	Price	Measurement
sugar	7	4	kg
salt	13	2	kg
pepper	12	1	kg
milk	9.3	2	L
cheese	17.7	5	kg

## RMS Requirements Specification

- Admin sees notifications

The screenshot shows a web browser window for 'Restaurant Management' at 'localhost:63342/SEfinal/admin.php'. The title bar says 'Restaurant Management'. The main content area starts with 'Welcome Aron Hoxha.' followed by a navigation menu: ADD ON MENU, NOTIFICATIONS, STAFF, TABLES, PRODUCTS, ORDERS, TRANSACTIONS, and LOG OUT. Below the menu is a table with one row:

Sender	Message	Action
artur.paja	Rroga e ketij muaji u fut me sukses.	DELETE

At the bottom of the page is a footer with 'RMS © 2018 | Privacy Policy |'.

- Chef page

The screenshot shows a web browser window for 'localhost:63342/SEfinal/chef.php#' with the title 'Welcome marlinda.sejdini'. The top navigation menu includes ADD ON MENU, UNCOOKED ORDERS, PROCESSING ORDERS, SEE NOTIFICATIONS, CREATE NOTIFICATION, and LOG OUT. The main content is titled 'Uncooked Orders' and lists the details of Order 1:

Order Number	List of dishes	Accept
Order 1	Burger 3 Chicken Salad 4 Fish pie 5 Burger 1 Apple pie 1 Strawberry Cake 1	ACCEPT THIS ORDER

## RMS Requirements Specification

- Chef creates notification

The screenshot shows a web browser window for the RMS application at [localhost:63342/SEfinal/chef.php](http://localhost:63342/SEfinal/chef.php). The page has a navigation bar with links: ADD ON MENU, UNCOOKED ORDERS, PROCESSING ORDERS, SEE NOTIFICATIONS, CREATE NOTIFICATION (which is highlighted in blue), and LOG OUT. A modal dialog box is open in the center. The dialog has a header "Who are you sending" with a dropdown menu containing "aron.hoxha". Below it is a "Message" section with a text input placeholder "Enter a text of a maximum length 120 characters...". At the bottom of the dialog are two buttons: "Send" (green) and "Cancel" (red). In the background, there's a list of items: "Strawberry Cake 1" followed by several horizontal ellipses (...).

- Adding a new item in the menu

The screenshot shows a web browser window for the RMS application at [localhost:63342/SEfinal/add\\_menu.php](http://localhost:63342/SEfinal/add_menu.php). The title bar says "Adding new item". The form fields include:

- Name:
- List of products: A large empty text area.
- Quantity:  Add (with a dropdown menu showing "sugar/kg").
- Price:
- Category:
- Photo:  No file chosen.
- Description: A large empty text area.

At the bottom right of the form is a "Save" button.

## RMS Requirements Specification

- Chef accepts the order

localhost:63342/SEfinal/open\_order.php?id=1

[Back](#)

Menu item	Products
Burger x 3	cheese 0.05 kg <input checked="" type="checkbox"/> ham 0.1 kg <input checked="" type="checkbox"/> chicken 0.1 kg <input checked="" type="checkbox"/> tomato 0.05 kg <input checked="" type="checkbox"/> potato 0.1 kg <input checked="" type="checkbox"/> onions 0.05 kg <input checked="" type="checkbox"/>
Chicken Salad x 4	cheese 0.1 kg <input checked="" type="checkbox"/> chicken 0.3 kg <input checked="" type="checkbox"/> tomato 0.3 kg <input checked="" type="checkbox"/> onions 0.08 kg <input checked="" type="checkbox"/>
Fish pie x 5	flour 0.1 kg <input checked="" type="checkbox"/> fish 0.2 kg <input checked="" type="checkbox"/>
Burger x 1	cheese 0.05 kg <input checked="" type="checkbox"/> ham 0.1 kg <input checked="" type="checkbox"/> tomato 0.05 kg <input checked="" type="checkbox"/> potato 0.1 kg <input checked="" type="checkbox"/> onions 0.05 kg <input checked="" type="checkbox"/>
Apple pie x 1	sugar 0.1 kg <input checked="" type="checkbox"/> butter 0.1 kg <input checked="" type="checkbox"/> apple 0.2 kg <input checked="" type="checkbox"/> 0.01 <input checked="" type="checkbox"/> vanilla 0.01 kg <input checked="" type="checkbox"/> flour 0.1 kg <input checked="" type="checkbox"/>
Strawberry Cake x 1	sugar 0.1 kg <input checked="" type="checkbox"/> milk 0.1 L <input checked="" type="checkbox"/> butter 0.1 kg <input checked="" type="checkbox"/> strawberry 0.2 kg <input checked="" type="checkbox"/> mascarpone 0.1 kg <input checked="" type="checkbox"/> flour 0.1 kg <input checked="" type="checkbox"/> vanilla 0.01 kg <input checked="" type="checkbox"/>
<a href="#">Start preparing this order</a> <a href="#">Add new items</a>	

## RMS Requirements Specification

- Chef adds new products in the order

Back

### Adding a new item in the menu

Enter new product in the order

Quantity

Update order cost

Add this product

- Processing order

Welcome marlinda.sejdini

ADD ON MENU UNCOOKED ORDERS PROCESSING ORDERS SEE NOTIFICATIONS CREATE NOTIFICATION LOG OUT

Order Number	List of dishes	Finish Order
Order 1	Burger Chicken Salad Fish pie Burger Apple pie Strawberry Cake	DONE

## RMS Requirements Specification

### - Table main page

The screenshot shows a web browser window for 'Restaurant Management' at localhost:63342/SEfinal/showTable.php#. The page displays a menu with various dishes. At the top right, there are buttons for 'MENU', 'DISHES', 'PIZZA', 'PASTA', 'DESSERT', and 'DRINK'. A status indicator 'STATUS:AVAILABLE' is shown. Below the menu, there are four main dish categories with images: 'BURGER' (a bacon cheeseburger), 'CHICKEN SALAD' (chicken salad with tomatoes), 'FISH PIE' (a fish pie), and 'LASAGNE' (Italian lasagna). Each dish has an 'ADD' button and a price: \$15, \$20, \$40, and \$40 respectively. Below these are four more dishes: 'RICE' (rice with vegetables), 'CHICKEN SALAD' (another view), 'PIZZA MARGHERITA' (a pizza), and 'PIZZA OLIVES' (another pizza). The bottom left of the page shows the URL 'localhost:63342/SEfinal/showTable.php#'

### - Confirming order

The screenshot shows a web browser window for 'Restaurant Management' at localhost:63342/SEfinal/confirmRequest.php. The page title is 'Welcome Table 1'. There is a 'GO BACK' link. Below it is a table showing the order details:

Name	Description	Amount	Price
Burger	panera bread, chicken, mayonnaise	1	\$15
Chicken Salad	chicken, salad, tomatoes	1	\$20
Pizza Margherita	world's most famous pizza	1	\$33

Below the table is a field for 'EXTRA DESCRIPTION:' and a 'TOTAL AMOUNT: \$ 68'. At the bottom is a 'SEND ORDER' button.

## RMS Requirements Specification

- View order by the table

The screenshot shows a web-based restaurant management system. At the top, there are two tabs labeled "Restaurant Management". The main window displays a modal dialog titled "Your order:" containing a table with dish names and amounts. The table has columns for "Dish Name" and "Amount". The entries are:

Dish Name	Amount
Burger	1
Chicken Salad	1
Pizza Margherita	1

Below the table is a "Save Changes" button. To the right of the table are green "less than" and "greater than" navigation arrows. A red "Cancel" button is located at the bottom left of the modal. Below the modal, there are four food items with "ADD" buttons:

- BURGER: panera bread, chicken, mayonnaise - ADD - 15 \$
- CHICKEN SALAD: chicken, salad, tomatoes - ADD - 20 \$
- FISH PIE: A very special pie made of fish - ADD - 40 \$
- LASAGNE: Italian Lasagna, very delicious - ADD - 40 \$

- Accountant page

The screenshot shows the "Accountant page" of the RMS system. The top navigation bar includes links for "SUPPLIERS", "NOTIFICATIONS", "CREATE TRANSACTION", "MANAGE TRANSACTIONS", and "MY PROFILE". The user is identified as "Welcome Saed Hasa.". Below the navigation bar, there are two large teal-colored buttons:

- Staff
- Products

At the bottom of the page, there is a footer bar with the text "RMS © 2018 | Privacy Policy |".

## RMS Requirements Specification

- Staff as seen by the accountant

Welcome Saed Hasa.

SUPPLIERS NOTIFICATIONS CREATE TRANSACTION MANAGE TRANSACTIONS MY PROFILE

Staff

Products

ID	Name	Surname	Task	Salary
1	Aron	Hoxha	admin	Salary updated for this month
2	Marjon	Hala	chef	<input type="text" value="Enter salary of this employee: 300"/>
3	Marlinda	Sejdini	chef	Salary updated for this month
4	Kevi	Doda	waiter	<input type="text" value="Enter salary of this employee: 300"/>
5	Bledar	Kaca	waiter	Salary updated for this month
6	Endri	Balla	waiter	<input type="text" value="Enter salary of this employee: 200"/>
7	Armir	Kurti	waiter	<input type="text" value="Enter salary of this employee: 300"/>
8	Saed	Hasa	accountant	<input type="text" value="Enter salary of this employee: 300"/>
9	Artur	Paja	accountant	<input type="text" value="Enter salary of this employee: 500"/>
11	Andel	Gugu	admin	<input type="text" value="Enter salary of this employee: 500"/>

Submit Salaries

## RMS Requirements Specification

- Products as seen by the accountant

The screenshot shows a web-based application titled "Restaurant Management". The top navigation bar includes links for "SUPPLIERS", "NOTIFICATIONS", "CREATE TRANSACTION", "MANAGE TRANSACTIONS", and "MY PROFILE". Below the navigation, there are two main sections: "Staff" and "Products", with "Products" being the active section.

The "Products" section displays a table of inventory items. The table has columns for ID, Name, Quantity, Price, and a "Delete Product" link. There are two tables of items, separated by a horizontal line.

ID	Name	Quantity	Price	Delete Product
1	sugar	6.8	4	<a href="#">Delete Product</a>
2	salt	13	2	<a href="#">Delete Product</a>
3	pepper	12	1	<a href="#">Delete Product</a>
4	milk	9.2	2	<a href="#">Delete Product</a>
5	cheese	17.1	5	<a href="#">Delete Product</a>
6	butter	6	3	<a href="#">Delete Product</a>

ID	Name	Quantity	Price	Delete Product
30	flour	89.3	1	<a href="#">Delete Product</a>
31	pea	5	3	<a href="#">Delete Product</a>
32	olives	50	3	<a href="#">Delete Product</a>
33	mozzarella	50	5	<a href="#">Delete Product</a>
34	spaghetti	40	3	<a href="#">Delete Product</a>
35	mascarpone	39.9	5	<a href="#">Delete Product</a>
36	cream cheese	20	5	<a href="#">Delete Product</a>
37	vanilla	79.98	1	<a href="#">Delete Product</a>
38	apple	9.6	2	<a href="#">Delete Product</a>

**Save Changes**

## RMS Requirements Specification

- Accountant sees suppliers

The screenshot shows a web browser window with three tabs labeled "Restaurant Management". The active tab displays a list of suppliers. At the top, there are links: "Welcome Saeed Hasa.", "GO BACK", "ADD SUPPLIER", and "MY PROFILE". Below this is a grid of four supplier entries:

Supplier Logo	Supplier Name	Contact Email	Action
	Big market	Bmarket@gmail.com	Delete Supplier
	Alb market	Amarket@gmail.com	Delete Supplier
	Coca Cola	Ccola@gmail.com	Delete Supplier

Below the grid, there is a small image of a street scene with signs for "Fette Patisserie Bleat" and "SOME G".

- Accountant open suppliers

The screenshot shows a web browser window with three tabs labeled "Restaurant Management". The active tab displays a detailed view of a supplier. At the top, there are links: "Welcome Saeed Hasa.", "GO BACK", and "MY PROFILE". Below this is a summary section:

Name: Big market  
Phone: 0674523651  
Description:  
Email: Bmarket@gmail.com

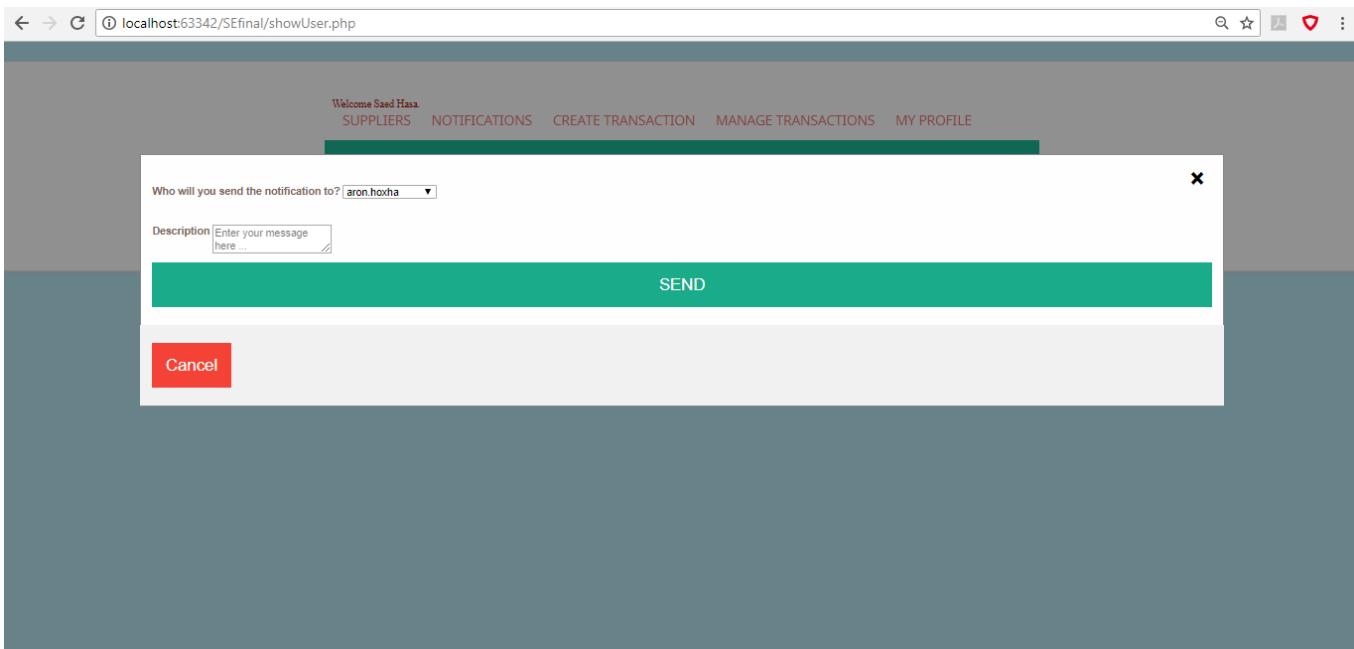
Below this is a large circular logo for "Big market".

At the bottom, there is a "Product List" table:

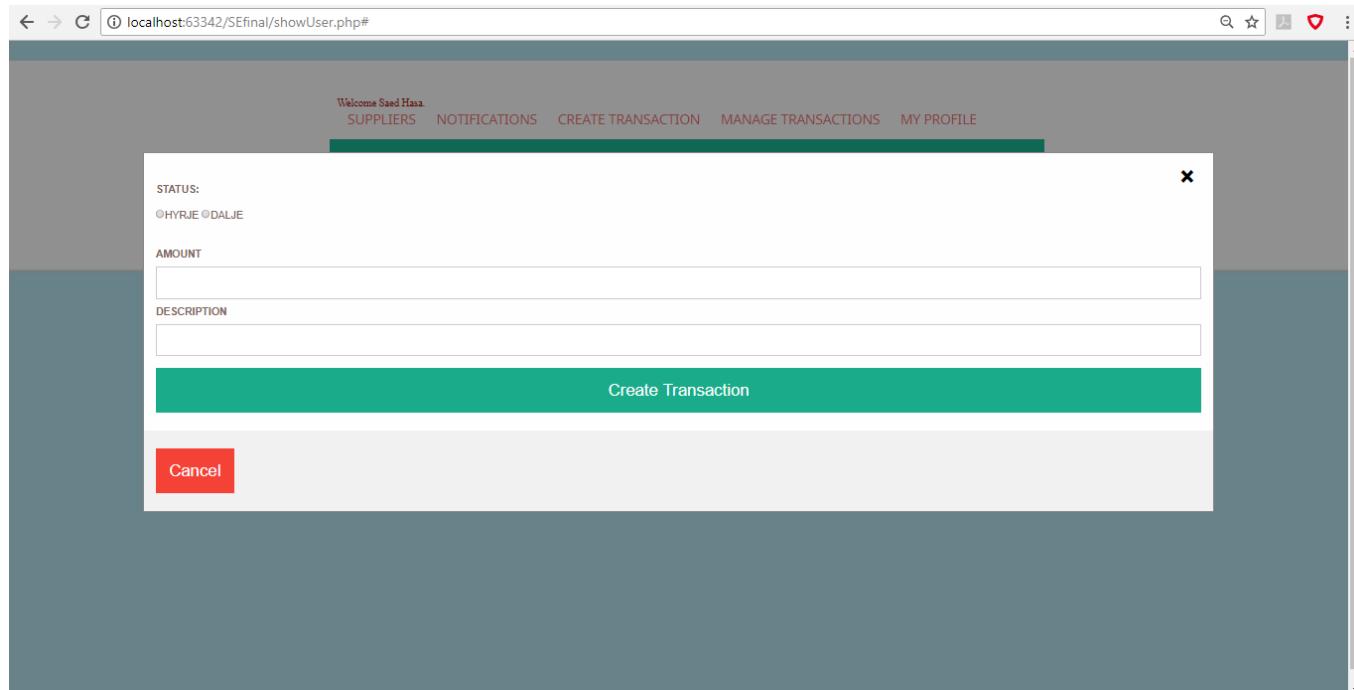
Product List		
Name	Quantity	Price (\$)
sugar	6.8 kg remaining	4
salt	13 kg remaining	2
pepper	12 kg remaining	1
milk	9.2 L remaining	2

## RMS Requirements Specification

- Accountant sends notification



- Accountant creates transaction



## RMS Requirements Specification

- Accountant manages transactions

Welcome Saed Hasa.

GO BACK   CREATE TRANSACTION   GENERATE

Search for names..

Transaction Maker	Status	Amount	Description	Report
Aron Hoxha (admin)	dalje	100	rroga	Generate Report
Aron Hoxha (admin)	dalje	200	rroga	Generate Report
Aron Hoxha (admin)	dalje	133	rroga	Generate Report
Aron Hoxha (admin)	dalje	110	rroga	Generate Report
Aron Hoxha (admin)	dalje	110	rroga	Generate Report
Aron Hoxha (admin)	dalje	110	rroga	Generate Report
Aron Hoxha (admin)	hyrje	100	pagese	Generate Report
Aron Hoxha (admin)	hyrje	100	pagese	Generate Report
Bledar Kaca (waiter)	hyrje	64	porosi	Generate Report
Bledar Kaca (waiter)	hyrje	50	porosi	Generate Report
Kevi Doda (waiter)	hyrje	122	porosi	Generate Report
Aron Hoxha (admin)	dalje	200	rroga	Generate Report
Artur Paja (accountant)	dalje	6	porosi ushqime	Generate Report
Artur Paja (accountant)	dalje	4	porosi ushqime	Generate Report
Bledar Kaca (waiter)	hyrje	300	porosi	Generate Report
Artur Paja (accountant)	dalje	2	porosi ushqime nga Artur Paja	Generate Report

- Generate report

TRANSACTION REPORT

1 / 1

TRANSACTION REPORT

REFERENCE: 55033645  
BILLING DATE: 03-06-2018

**Restaurant**

**BILLING FROM**

Aron Hoxha  
RMS  
admin  
Tirane, Albania

**BILLING TO**

Saed Hasa  
RMS  
accountant  
Tirane, Albania

DESCRIPTION	STAFF	STATUS	TOTAL
rroga	Aron Hoxha	dalje	\$ 100.00
		Total	\$ 100.00
		Total due	\$ 100.00

**SIGNATURE**

## RMS Requirements Specification

- Accountant generates all salaries

The screenshot shows a web browser window titled "Restaurant Management" with a tab labeled "TRANSACTION REPORT". The URL in the address bar is "localhost:63342/SEfinal/examples/simple.php?id=staff". The main content is a "TRANSACTION REPORT" for "Saed Hasa". It includes a logo of a fork and knife, the word "Restaurant", and reference information: REFERENCE: 55033645 and BILLING DATE: 03-06-2018. The report lists five transactions under "DESCRIPTION", "STAFF", "STATUS", and "TOTAL".

DESCRIPTION	STAFF	STATUS	TOTAL
rroga	Aron Hoxha	dalje	\$ 100.00
rroga	Aron Hoxha	dalje	\$ 200.00
rroga	Aron Hoxha	dalje	\$ 133.00
rroga	Aron Hoxha	dalje	\$ 110.00
rroga	Aron Hoxha	dalje	\$ 110.00

- Accountant edits profile

The screenshot shows a web browser window titled "Restaurant Management" with a tab labeled "TRANSACTION REPORT". The URL in the address bar is "localhost:63342/SEfinal/showUser.php#". The main content is a user profile edit form for "Saed Hasa". The form includes fields for First Name (Saed), Last Name (Hasa), Phone Number (0699653214), Job Position (accountant), Salary (300 ALL), and Photo (choose file). A "Save Changes" button is at the bottom, and a "Cancel" button is in the footer. There is also a "Change password?" link.

## RMS Requirements Specification

- Waiters page

The screenshot shows a web browser window titled "Restaurant Management". The URL in the address bar is "localhost:63342/SEfinal/showWaiter.php#". The page header includes a logo of a fork and knife, and navigation links: TABLES, ORDERS, CHECK NOTIFICATIONS, ENDRI BALA, SEND MESSAGE, and LOG OUT. Below the header, there is a table with one row containing Order Number (Order 2), Table Number (Table 3), Accept status (Accepted!), Payment amount (300 \$), and Print Receipt button. At the bottom of the page, there is a footer with the text "RMS © 2018 | Privacy Policy |".

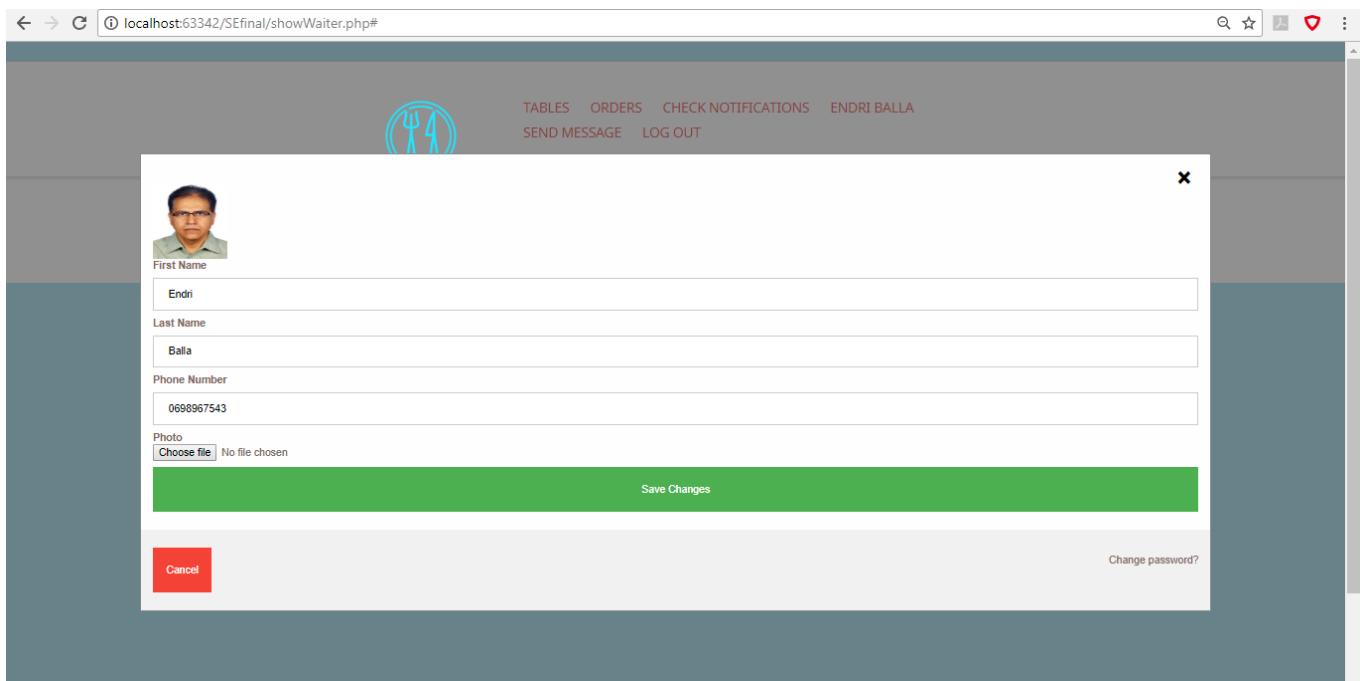
- Tables as seen by waiters

The screenshot shows a web browser window titled "Restaurant Management". The URL in the address bar is "localhost:63342/SEfinal/showWaiter.php#". The page title is "TABLES:" followed by a back and forward navigation icon. Below the title, there are two rows of four tables each. Each table card displays the table number, the number of chairs, and a green "SET AVAILABLE" or "SET BUSY" button. The tables are represented by icons: TABLE 1 (red), TABLE 2 (blue), TABLE 3 (blue), TABLE 4 (blue), TABLE 5 (blue), TABLE 6 (blue), TABLE 7 (blue), and TABLE 8 (blue). The details for each table are:

Table Number	Number of chairs	Status
TABLE 1	4	SET AVAILABLE
TABLE 2	5	SET BUSY
TABLE 3	4	SET BUSY
TABLE 4	6	SET BUSY
TABLE 5	7	SET BUSY
TABLE 6	8	SET BUSY
TABLE 7	8	SET BUSY
TABLE 8	3	SET BUSY

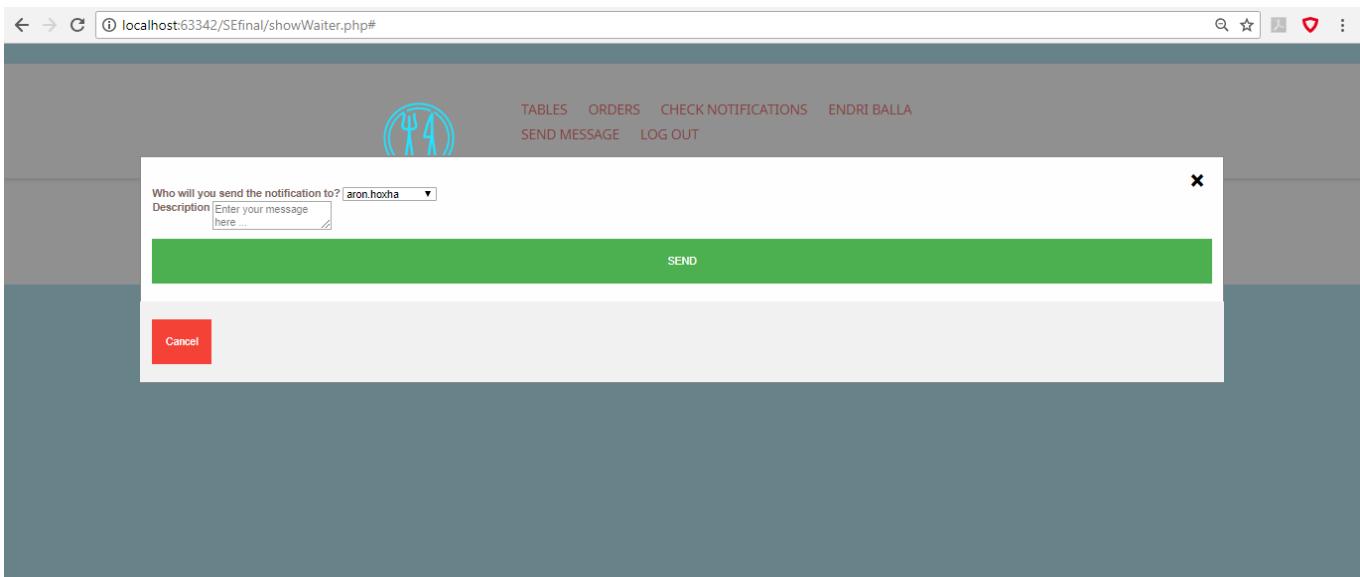
## RMS Requirements Specification

- Waiter edit profile



A screenshot of a web browser showing the 'showWaiter.php' page. The URL bar shows 'localhost:63342/SEfinal/showWaiter.php#'. The page has a dark blue header with a logo of a fork and knife inside a circle, and navigation links: TABLES, ORDERS, CHECK NOTIFICATIONS, ENDRI BALLA, SEND MESSAGE, and LOG OUT. Below the header is a white modal window for editing a waiter's profile. It contains fields for First Name ('Endri'), Last Name ('Balla'), Phone Number ('0698967543'), and a Photo input field ('Choose file No file chosen'). At the bottom of the modal are 'Save Changes' (green button) and 'Cancel' (red button). In the top right corner of the modal is a close button ('X'). To the right of the modal, there is a link 'Change password?'.

- Waiter sends notification



A screenshot of a web browser showing the 'showWaiter.php' page. The URL bar shows 'localhost:63342/SEfinal/showWaiter.php#'. The page has a dark blue header with a logo of a fork and knife inside a circle, and navigation links: TABLES, ORDERS, CHECK NOTIFICATIONS, ENDRI BALLA, SEND MESSAGE, and LOG OUT. Below the header is a white modal window for sending a notification. It has a dropdown menu 'Who will you send the notification to?' with 'aron.hoxha' selected, and a text area 'Description' with placeholder text 'Enter your message here...'. At the bottom of the modal are 'SEND' (green button) and 'Cancel' (red button). In the top right corner of the modal is a close button ('X').

## 6. SPM

Project name: RMS

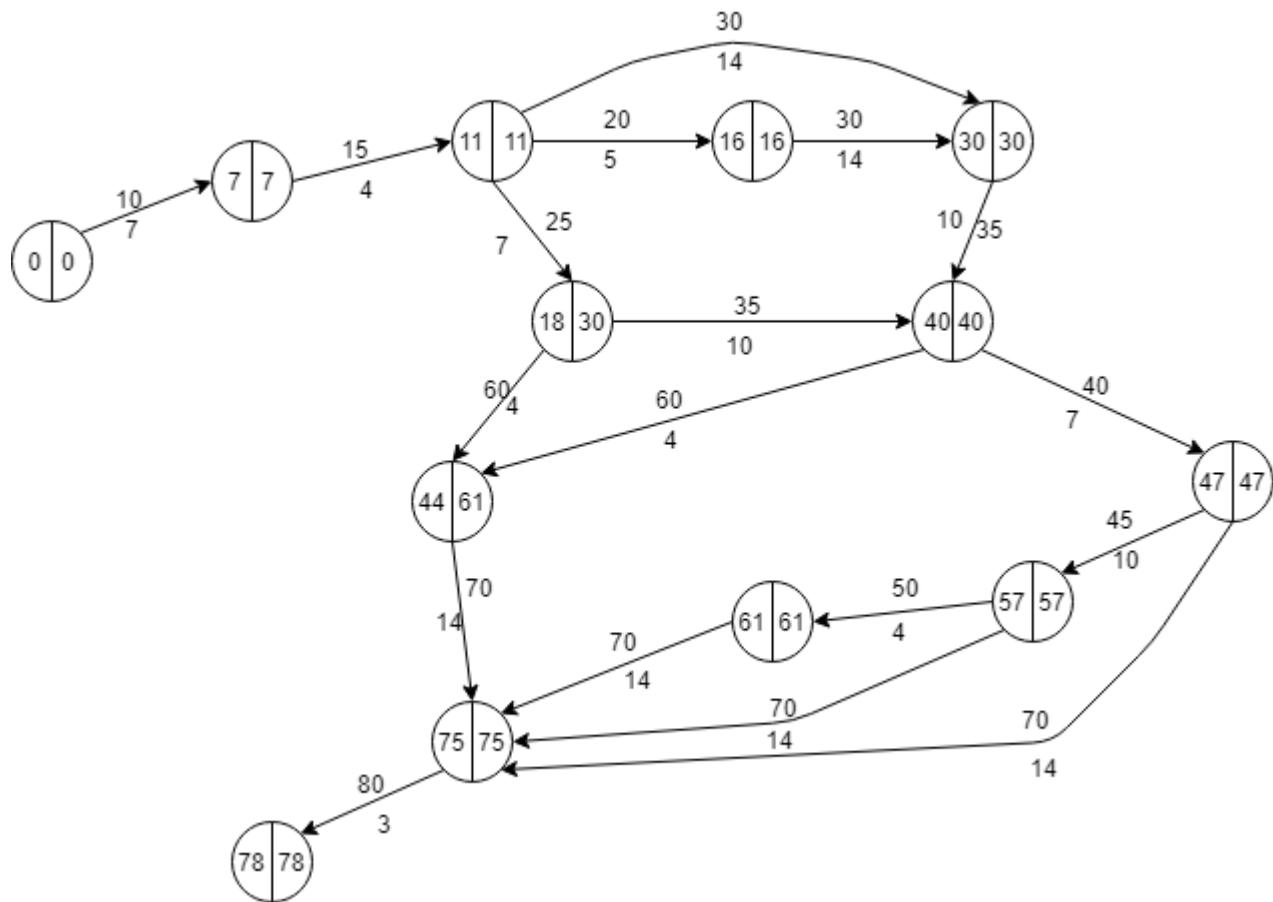
Members: Erisa Hoxha, Andel Gugu, Fadile Gurra, Gerta Shllaku, Melba Hysa

Start time: 12.03.2018

End time: 01.06.2018

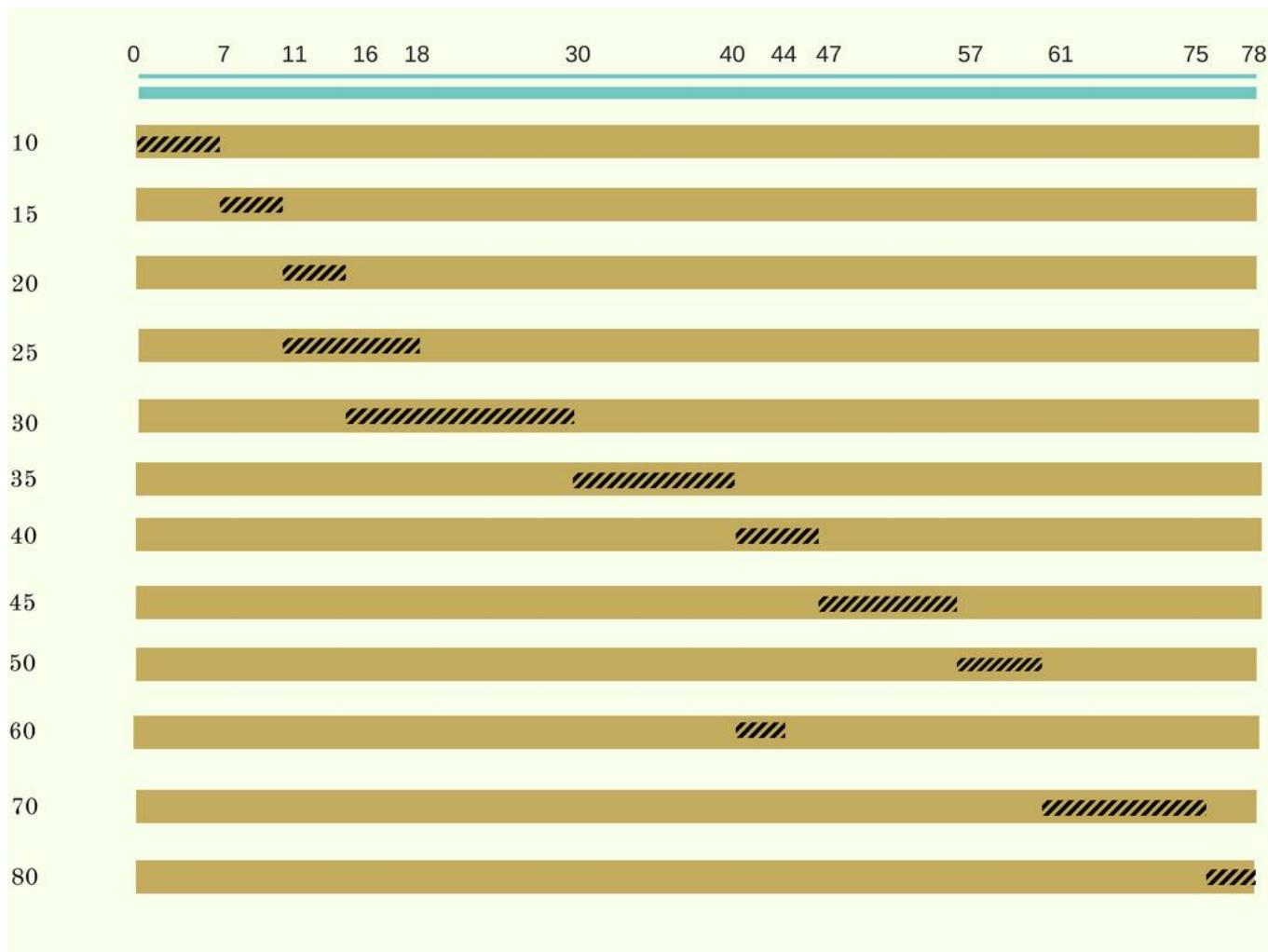
	Work tasks	Duration	Depends
10	Proposed topic for project	4	10
20	Project Description	5	15
25	Sketch designs	7	15
30	Requirements Specification	14	15, 20
35	Use Cases and Scenarios	10	25, 30
40	Activity Diagrams	7	35
45	State Sequence Diagrams Collaboration DFD	10	40
50	Class Object Deployment	4	45
60	Detailed Design	4	25, 35
70	Programming	14	60, 40, 45, 50
80	Installation	3	70

## Networking



*RMS Requirements Specification*

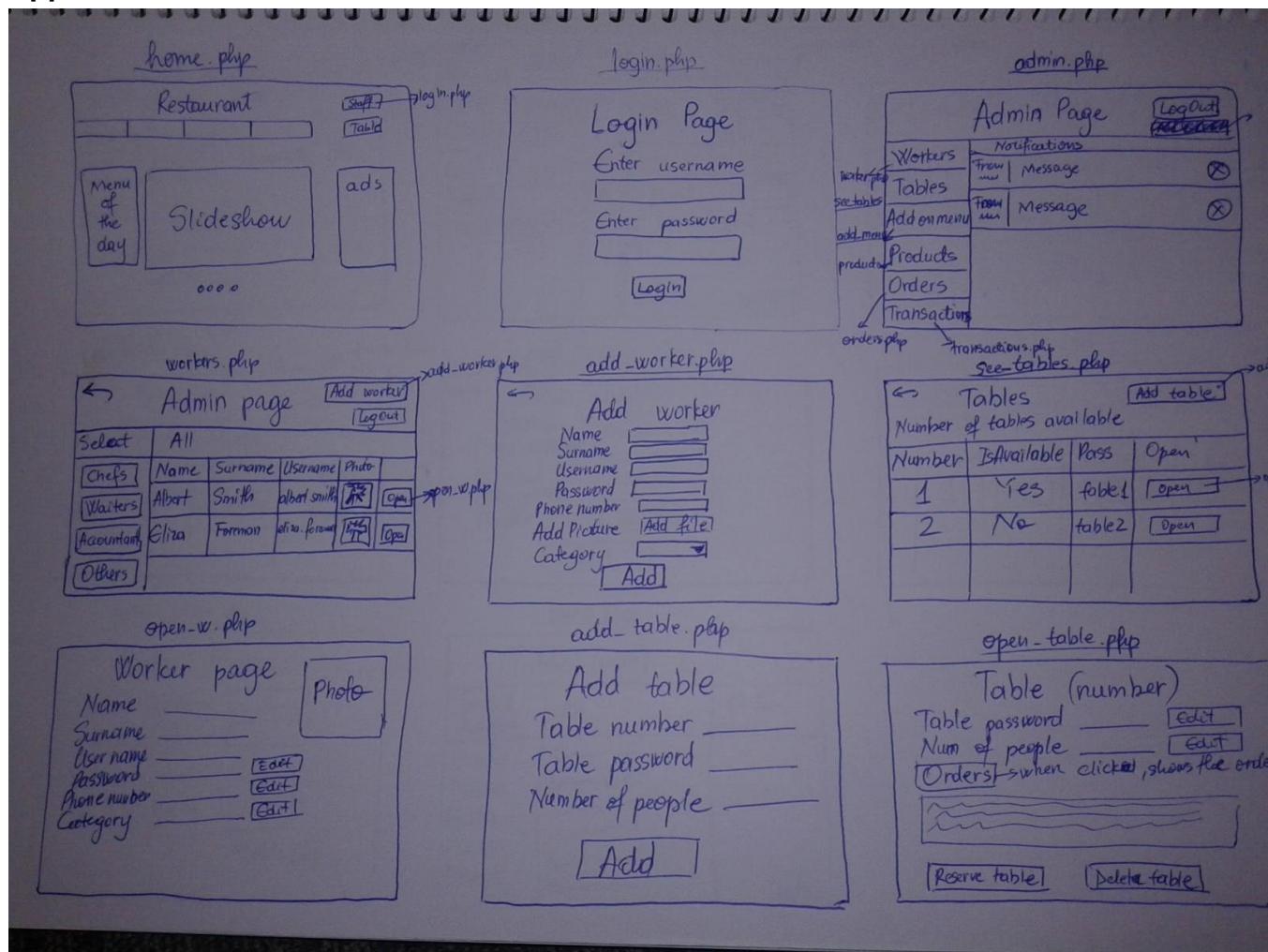
Gantt chart



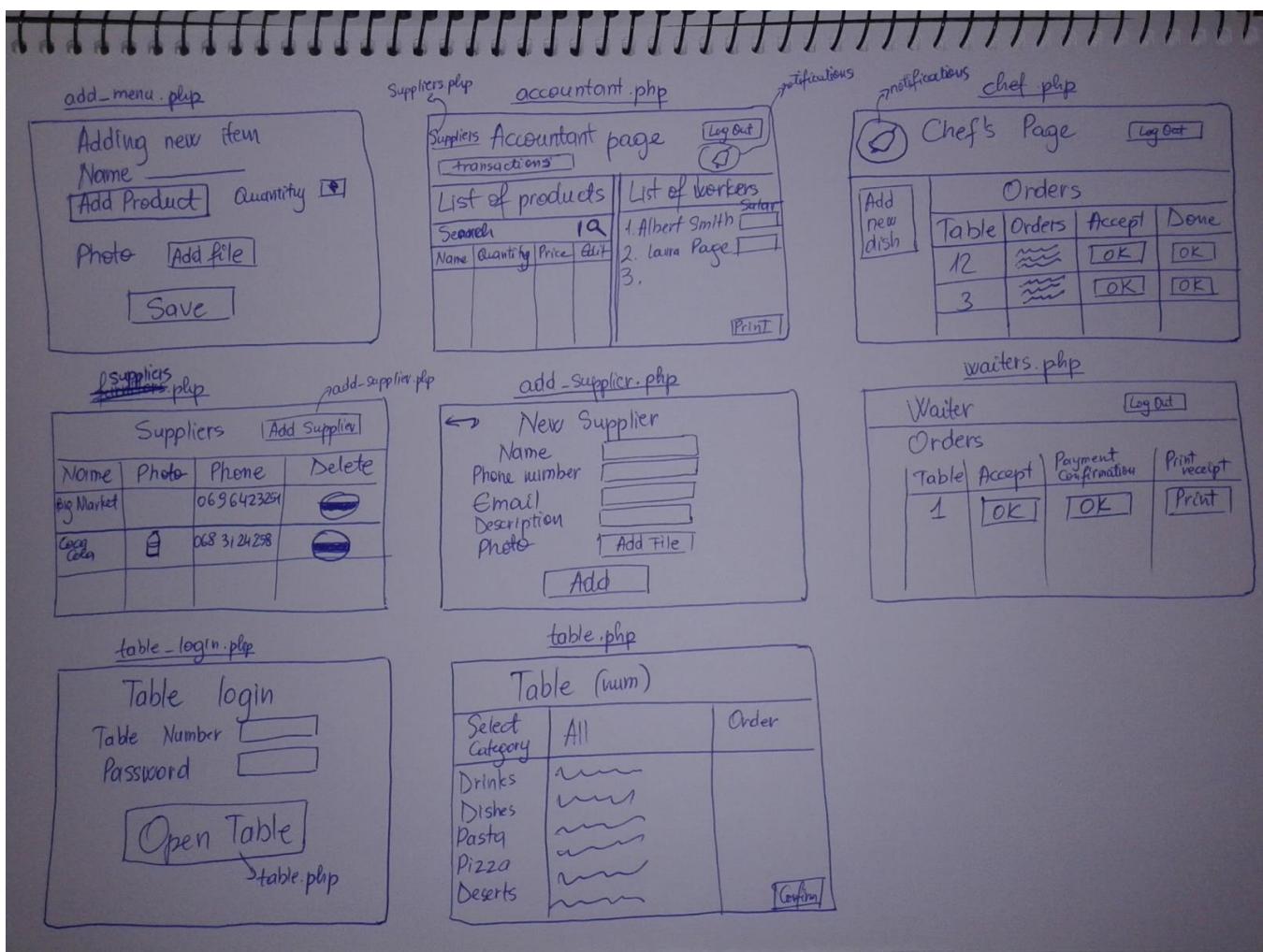
## RMS Requirements Specification

### APPENDIX

#### Appendix A. Initial Sketches

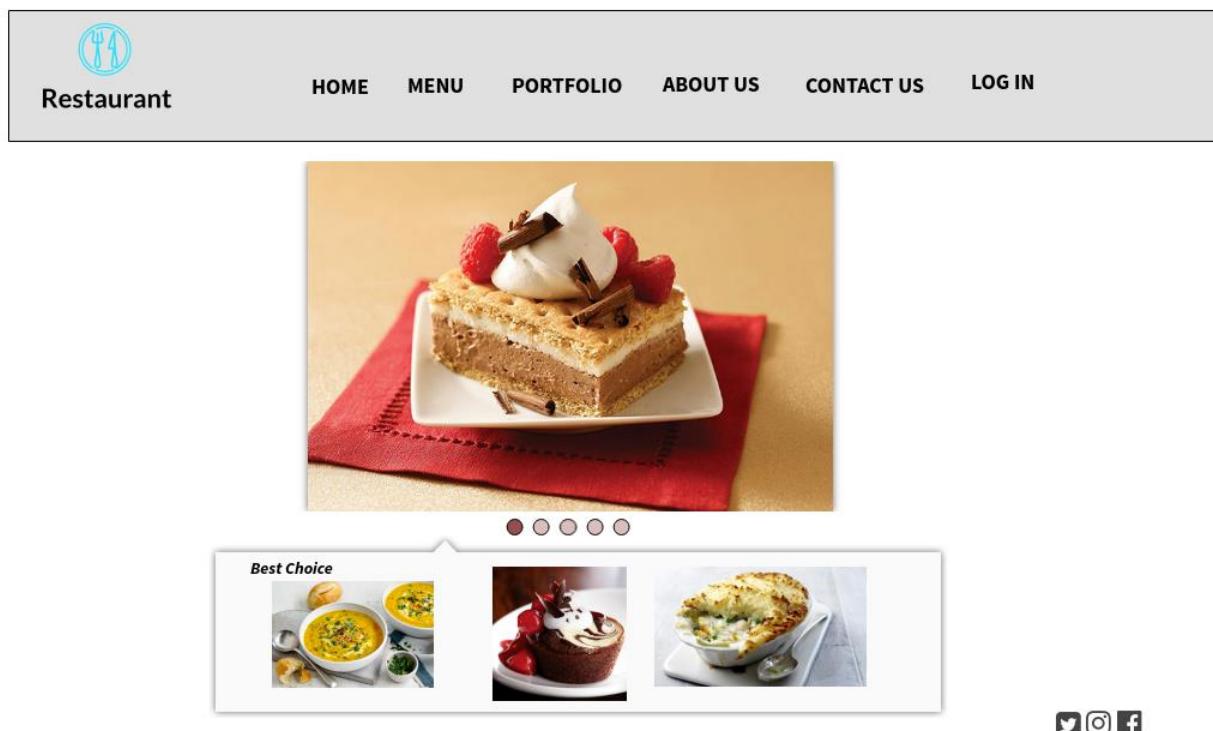


## RMS Requirements Specification



## DETAILED DESIGN

Home page



## RMS Requirements Specification

### Log in (table)

The image shows a screenshot of a restaurant website. At the top, there is a navigation bar with a logo, 'Restaurant', and links for 'HOME', 'ABOUT US', 'MENU', and 'LOG IN'. Below the navigation bar, a large, semi-transparent 'LOG IN' modal is centered. The modal has fields for 'Table Number' and 'Table Password', each with an input box. At the bottom of the modal are two buttons: 'CANCEL' and 'LOG IN'. Behind the modal, a banner ad for 'Full Banner Ad - 468x60' is visible, featuring a circular icon with a fork and knife, social media icons for Twitter, Instagram, and Facebook, and the text 'Full Banner Ad - 468x60'.

## RMS Requirements Specification

### Table Home Page



MENU    CONTACTS    STATUS:BUSY    ORDER #    VIEW ORDER

**Restaurant**

---

### DISHES







---

### YOUR ORDER LIST

Enter extra information about your order

---

Full Banner Ad - 468x60



April 2018

Page 101 of 125

## *RMS Requirements Specification*

Display table info



**Table 4**

Table password: Table 4

Number of chairs: 6

Display Orders

Delete

Chef Id Amount Description



## RMS Requirements Specification

Accountant UI + Display and edit salaries

Welcome <admin name>  
Log out

Restaurant SUPPLIERS NOTIFICATIONS CREATE TRANSACTION MANAGE TRANSACTION MY PROFILE

STAFF

PRODUCTS

ID	NAME	SURNAME	TASK	SALARY
1	AGRON	HOXHA	ADMIN	SALARY UPDATED FOR THIS MONTH
2	ARTUR	PAJA	ACCOUNTANT	ENTER SALARY OF THE EMPLOYEE

[Twitter](#) [Instagram](#) [Facebook](#)

## **RMS Requirements Specification**

### Add a supplier

 Welcome <Admin Name>	GO BACK	ADD SUPPLIER	MY PROFILE
Restaurant			

Supplier name	X
<input type="text"/>	
Supplier Phone Number	
<input type="text"/>	
Description	
<input type="text"/>	
Supplier e-mail	
<input type="text"/>	
Photo	
<input type="button" value="Choose file"/>	<input type="button" value="Save Changes"/>

## RMS Requirements Specification

Add new item

[Back](#)

### Adding new item

Name

List of products

0

Price

Category

Photo  No chosen file

Description

**RMS Requirements Specification**

Add new worker

**Add Worker**

Name	<input type="text"/>
Surname	<input type="text"/>
phone Number	<input type="text"/>
Add Photo	<input type="button" value="Choose File"/> <b>No chosen file</b>
Category	<input type="button" value="Admin ▾"/>
Salary	<input type="text"/>
<input type="button" value="Submit"/>	

Add table

## Adding a new table

Table Number	<input type="text"/>
Table password	<input type="password"/>
Number of chairs	<input type="text"/>
<input type="button" value="Save Table"/>	

## **RMS Requirements Specification**

### Admin – Staff Display



Notification	Name	Surname	Username	Photo	Add worker
Workers	Aron	Hoxha	Ahoxha	aron.jpg	Open
Tables					
Products					
Orders					
Transaction					

Full Banner Ad - 468x60



## RMS Requirements Specification

Admin UI + table display

  
**Restaurant**

[GO BACK](#)

[ADD ON MENU](#)

[MY PROFILE](#)

Welcome <admin name>  
[Log out](#)

[Notifications](#)

[Workers](#)

[Tables](#)

[Products](#)

[Order](#)

[Transactions](#)

**CLICK TO ADD A TABLE**

**Table 1**  
It's not available.  
Password is table1.  
Number of chairs: 5

**Table 2**  
It's not available.  
Password is table2.  
Number of chairs: 5

**Table 3**  
It's available.  
Password is table3.  
Number of chairs: 4

**Table 4**  
It's available.  
Password is table4.  
Number of chairs: 6

**Table 5**  
It's not available.  
Password is table5.  
Number of chairs: 4

**Table 6**  
It's not available.  
Password is table6.  
Number of chairs: 5

**Table 7**  
It's not available.  
Password is table7.  
Number of chairs: 5

**Table 8**  
It's not available.  
Password is table8.  
Number of chairs: 5

## RMS Requirements Specification

### Display suppliers



## RMS Requirements Specification

### Display worker

<a href="#">Back</a>		
<b>Worker Page</b>		
Name	Marjon	<input type="text"/>
Surname	Hala	<input type="text"/>
Username	Mhala	<input type="text"/>
Password	Mhala	<a href="#">Edit</a>
Phone Number	0698754321	<a href="#">Edit</a>
Category	Chef	<a href="#">Edit</a>
Salary	0	<a href="#">Edit</a>
<a href="#">Delete worker</a>		

## RMS Requirements Specification

### Request products from a supplier

GO BACK    MY PROFILE

**Restaurant**

---

Name

Phone

Description

E-mail

---

 <Company Picture>

---

Products List

Name	Quantity	Price
Item 1	<input type="text" value="x kg remaining"/>	4
Item 2	<input type="text" value="x kg remaining"/>	4
Item 3	<input type="text" value="x kg remaining"/>	4

If you want to order kitchen gadgets or other materials write them down in here.

**Submit Request**

Full Banner Ad - 468x60

## **RMS Requirements Specification**

Send requests to the supplier



Name

Company Name

E-mail

example@mail.com

Message

Requests

SEND

Full Banner Ad - 468x60



## **RMS Requirements Specification**

Cooked orders to waiters page

<b>RMS</b>	TABLES	ORDERS	WAITER	LOG OUT
------------	--------	--------	--------	---------

Order Number	Table Number	Status	Payment	Print Receipt
Order 1	Table 1	Accepted	<b>200 ALL</b>	<b>Print</b>

Full Banner Ad - 468x60



Order confirmation

## Welcome Table 1

[Go Back](#)

Name	Description	Amount	Price
Item 1			
Extra Description			
Total Amount			
<a href="#">Send Order</a>			

Full Banner Ad - 468x60



## *RMS Requirements Specification*

Tables in the waiter's page

# RMS

TABLES ORDERS WAITER LOG OUT

---

Tables:



Table 1  
Number of chairs:4

Set busy



Table 2  
Number of chairs:6

Set available



Table 3  
Number of chairs:4

Set available



Table 4  
Number of chairs:6

Set busy

---

Full Banner Ad - 468x60



## *RMS Requirements Specification*

Bill printing



Billing From:

**Waiter: Waiter One**

RMS  
Tirane, Albania

Billing To:

**Table 1**

RMS  
Tirane, Albania

DISH NAME	TYPE	AMOUNT	TOTAL
Dish name	dishes	x4	400ALL
Dish name	dishes	x4	400ALL
Total			800ALL

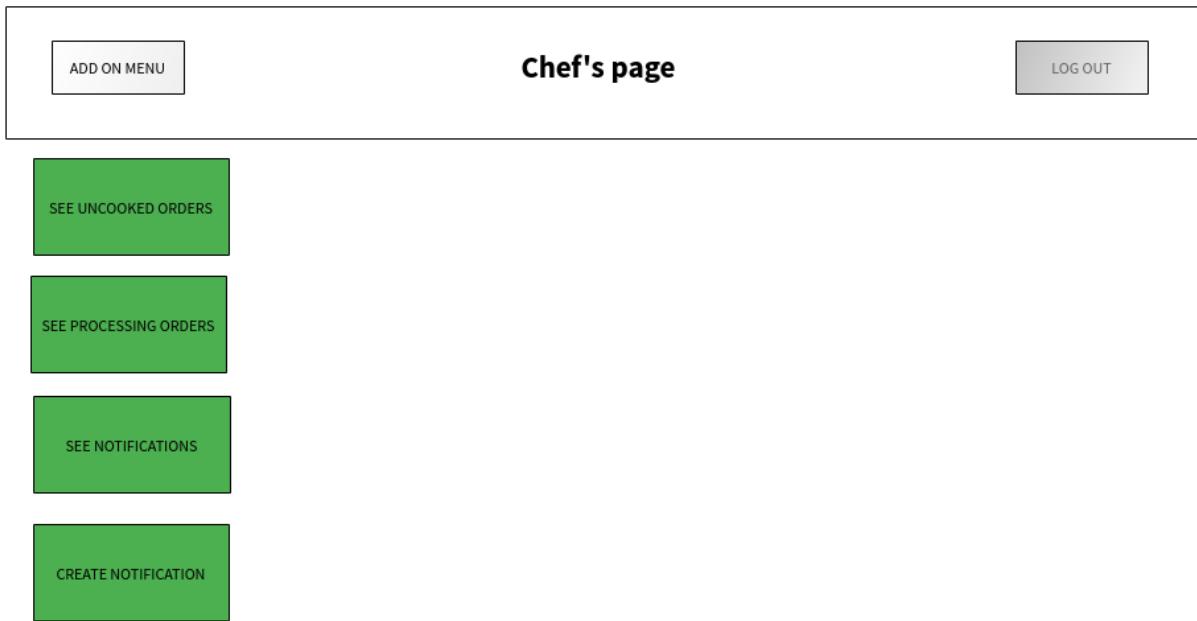
Thanks for choosing our restaurant

Full Banner Ad - 468x60



***RMS Requirements Specification***

Chef main page



## RMS Requirements Specification

### Uncooked orders



## RMS Requirements Specification

### Cooked orders



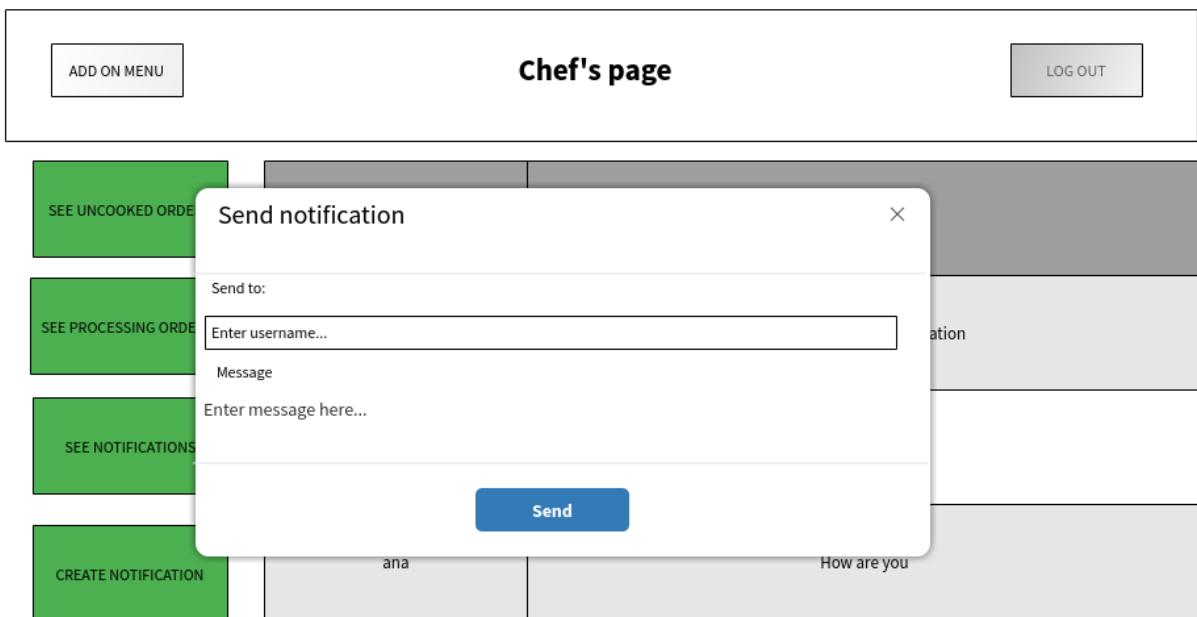
## RMS Requirements Specification

### Notifications



## RMS Requirements Specification

### Send notification



## *RMS Requirements Specification*

### Opened Order

Dishes	List of products
dish1	<ul style="list-style-type: none"><li>• Item 1 <input checked="" type="checkbox"/></li><li>• Item 2 <input type="checkbox"/></li><li>• Item 3 <input checked="" type="checkbox"/></li><li>• Item 4 <input type="checkbox"/></li></ul>
dish2	<ul style="list-style-type: none"><li>• Item 1 <input checked="" type="checkbox"/></li><li>• Item 2 <input checked="" type="checkbox"/></li><li>• Item 3 <input checked="" type="checkbox"/></li><li>• Item 4 <input type="checkbox"/></li></ul>
dish3	<ul style="list-style-type: none"><li>• Item 1 <input checked="" type="checkbox"/></li><li>• Item 2 <input type="checkbox"/></li><li>• Item 3 <input checked="" type="checkbox"/></li><li>• Item 4 <input type="checkbox"/></li></ul>

Start preparing this order

Add new products to this order

## **RMS Requirements Specification**

Add new products to this order

The wireframe shows a window titled "Adding new products in the order". Inside, there are three input fields: "Select new product" with a dropdown menu labeled "Select product", "Quantity" with a numeric input field containing "5" and up/down arrow buttons, and "Update order cost" with a numeric input field containing "300". Below these fields is a button labeled "Save Changes".

# RMS TEAM

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Fadile Gurra ([fgurra15@epoka.edu.al](mailto:fgurra15@epoka.edu.al))  
Gerta Shllaku ([gshllaku15@epoka.edu.al](mailto:gshllaku15@epoka.edu.al))  
Melba Hysa ([mhysa15@epoka.edu.al](mailto:mhysa15@epoka.edu.al))