***User Requirements Specification***

Software solution for “Media Bazaar” GROUP 1

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## Agreements with client

### Sides:

Client: Media Bazaar represented by Andre Postma, *“Client”* later in this document.

Contractor: Group 1 (name TREE), *“Contractor”* later in this document.

### Agreements:

1. Contractor does the problem analysis.
2. Contractor prepares the problem solution in form of information system.
3. Contractor implements the solution in form of client-server software application for Windows operating system.
4. Team presents the product to the Client.
5. Project must be completed within the period of 6 weeks.

## Functional requirements

All the requirements were discussed with client. *“User” later in the document is an abstract alias to describe the functionality.*

### Windows application (Administrator side):

1. **FR-A-01** User can login to the system with personal credentials.
2. **FR-A-02** User can change the password.
3. **FR-A-03** User can logout from the system.
4. **FR-A-04** User can view list of employees.
5. **FR-A-05** User can add new employee to the system.
6. **FR-A-06** User can add new administrator to the system.
7. **FR-A-07** User can add new manager to the system.
8. **FR-A-08** User can view a list of accounts.
9. **FR-A-09** User can remove administrator’s or manager’s account.
10. **FR-A-10** User can update employee information.
11. **FR-A-11** User can modify employee status
12. Active / Inactive

ii) Started / Not started

1. **FR-A-12** User can view employee schedule.
2. **FR-A-13** User can assign one of three shifts to employee.
3. **FR-A-14** User can update information concerning employee’s schedule.
4. **FR-A-15** System can automatically organize employee schedule
5. Following employee preference if possible.

ii) Based on work contract.

iii) According to work regulation.

1. **FR-A-16** User can cancel shift assignment for the employee.

### Windows application (Manager side):

1. **FR-M-01** User can login to the system with personal credentials.
2. **FR-M-02** User can change the password.
3. **FR-M-03** User can logout from the system.
4. **FR-M-04** User can view employee list.
5. **FR-M-05** User can view employee’s details.
6. **FR-M-06** User can view statistical information.  
   (Employee average attendance, employee average salaries,

ratio of employee per department ).

1. **FR-M-07** User can view employee schedule.

### Website (Employee side):

1. **FR-E-01** User can login to the system with personal credentials.
2. **FR-E-02** User can change the password.
3. **FR-E-03** User can logout from the system.
4. **FR-E-04** User can view the work schedule.
5. **FR-E-05** User can choose preferred shift.
6. **FR-E-06** User can cancel the schedule.
7. **FR-E-07** User can send message(complaint, suggestion etc.) to a manager.
8. **FR-E-08** User can view list of items in stock.
9. **FR-E-09** User can send restoke request.

*Naming convention:*

*{FR-(Abbreviation from user’s type name)-(count in two-digit format)}*

## Prioritizing table MoSCow

MoSCoW table represents four levels of task prioritizing. The abbreviation stands for *Must, Should, Could and Won’t.*

We consider it crucially important to define priorities before implementation phase, so both developers and client have realistic expectations on project results.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature | Must have | Should Have | Could have | Won’t have |
| Store employee data (name, number, address etc.) |  |  |  |  |
| Store stock data (product name, numbe, quantity etc.) |  |  |  |  |
| Assign workshifts to employees |  |  |  |  |
| View employee and stock statistics |  |  |  |  |
| Extend application features |  |  |  |  |
| Add or terminate employees |  |  |  |  |
| Store history of previous employees |  |  |  |  |
| Login/logout to unique profile |  |  |  |  |
| Restrict or grant access to certain permissions and features based on role |  |  |  |  |
| View employee attendance |  |  |  |  |
| Register as a new user |  |  |  |  |
| Track employee activity/availability |  |  |  |  |
| Schedule shifts to employees |  |  |  |  |
| View departments and their information |  |  |  |  |
| View products and their information |  |  |  |  |
| Add/remove a department |  |  |  |  |
| Add/remove products |  |  |  |  |
| Access system from home computer |  |  |  |  |
| Employee can edit their work-related information (such as salary and role) |  |  |  |  |
| State shift preference |  |  |  |  |
| Website connected to same database as application |  |  |  |  |
| Employee can login/logout of website |  |  |  |  |
| Employee can register in website |  |  |  |  |
| Employee can view personal information in website |  |  |  |  |
| Employee can view schedule in website |  |  |  |  |
| Employee can contact manager through website |  |  |  |  |
| Employee can state a shift preference |  |  |  |  |

***Use cases***

***Use case: Administrator adds new employee***

Actors: Administrator

Main Success Scenario:

1. Administrator clicks “Add new employee”.
2. New form is open.
3. Administrator inputs employee information.
4. Administrator press “Done.”
5. System shows that employee has been successfully added.

Extension:

1. Field is empty

a. Notify user.

***Use case: Administrator updates employee information***

Actors: Administrator

Main Success Scenario:

1. Administrator clicks “Update employee information”
2. New form is open.
3. Administrator may change employee information.
4. Administrator press “Done.”
5. System shows that information has been successfully updated.

Extension:

1. Field is empty

a. Notify user.

***Use case: Administrator updates employee status***

Actors: Administrator

Main Success Scenario:

1. Administrator clicks “Update employee information”
2. New form is open.
3. Administrator may change employee status (1 out of 4).
4. Administrator press “Done.”
5. System shows that status has been successfully updated.

Extension:

1. Field is empty

a. Notify user.

***Use case: Administrator assigns a shift to employee***

Actors: Administrator

Main Success Scenario:

1. Administrator opens a week scheduler.
2. Administrator clicks on an empty slot.
3. Administrator chooses employee from the list of potentially available employees.
4. System shows that employee was successfully assigned.

***Use case: Administrator adds new manager to the system***

Actors: Administrator

Main Success Scenario:

1. Administrator opens an account section.
2. Administrator clicks on “Add new user”.
3. “Add new user” form is open.
4. Administrator chooses “manager” from dropbox “Role”.
5. Administrator inserts name and email in the textboxes.
6. Administrator clicks on “Add”.
7. System shows that user was successfully added.

Password is shown on the screen.

***Use case: Manager logs in first time***

Actors: Manager

Main Success Scenario:

1. Manager opens an application.
2. Login form is opened.
3. Manager logs in with credentials received from administrator.
4. Manager opens MyAccount module.
5. Manager enters current password and new password.
6. System shows that password was successfully changed.

***Use case: Manager views the employee statistics***

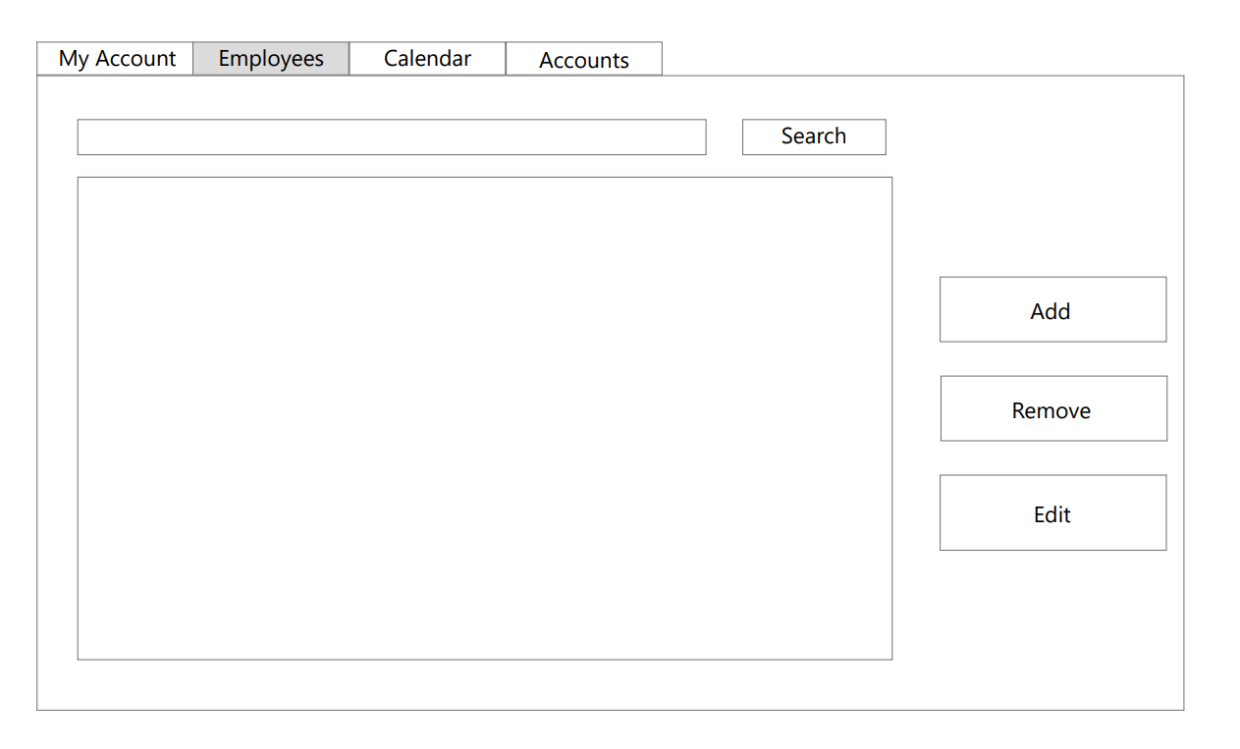
Actors: Manager

Main Success Scenario:

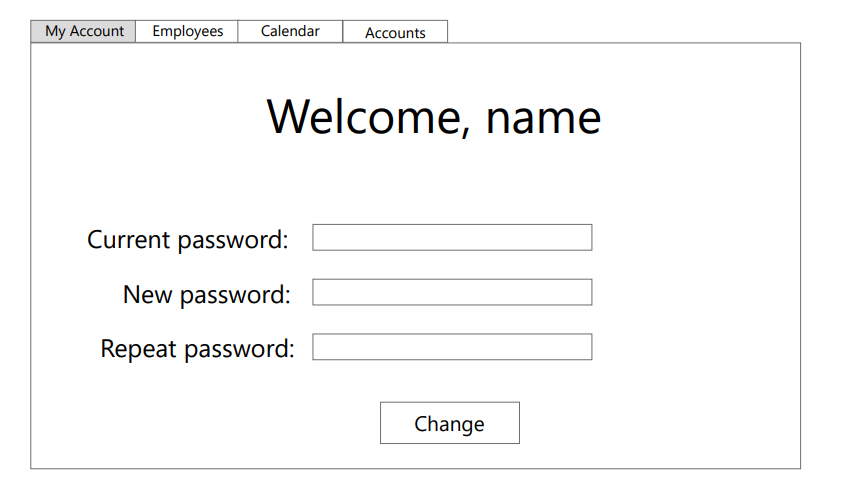
1. Manager opens a statistics section.
2. Manager clicks on “Employees”.
3. Manager may go through the employee list.
4. Manager may search for certain employee.
5. Manager may see the graph with average attendance.
6. Manager may filter the departments to see attendance of specific department.
7. Manager closes the form.

## Wireframes

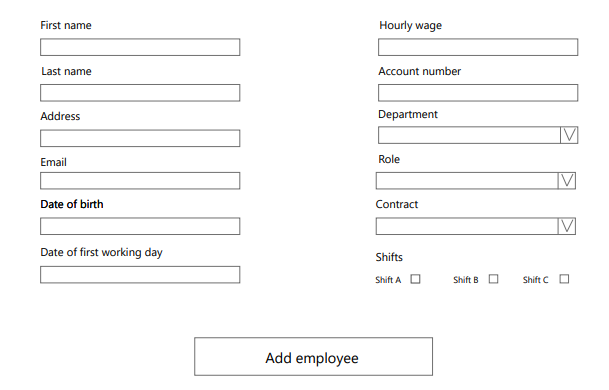
*Employee section (list of employees with search bar and button referencing to dialog windows)*



*MyAccount section (user may change the password).*



*Example of dialogue window with all forms needed to add new employee.*



*More wireframes can be found in our GIT repository:*

[*https://git.fhict.nl/I454066/prj-cb07-group1/-/tree/master/Documentation/Wireframes.pdf*](https://git.fhict.nl/I454066/prj-cb07-group1/-/tree/master/Documentation/Wireframes.pdf)