

User Requirements Specification



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Description

Our goal in this project is to solve a problem that SIOUX put forward as part of a software engineering course at Fontys University of Applied Sciences. The project involves managing appointments visitors schedule with SIOUX employees and keeping track of parking lot capacity so visitors are notified if there is space to park in the parking lot.

The following document is intended to outline the functionalities of the app, the use cases and user stories of our software solution.

Functional & Non-functional requirements

Non-functional requirements

- Reliability
- Maintainability
- Usability
- Testability

FR-01 The secretary should be able to log in

FR-02 The secretary should be able to create an appointment

- The appointment should be reflected in the employee's Outlook schedule

FR-03 The secretary should be able to edit an appointment

FR-04 The secretary should be able to delete an appointment

FR-05 The secretary should be able to see the schedule of a chosen employee

FR-06 The secretary should be able to see an overview of all appointments filtered by day

FR-07 A visitor should be able to receive a confirmation by email after making an appointment

FR-08 A visitor should be able to receive an SMS 10 minutes before the appointment where he can park

FR-09 An employee from Sioux should be able to see the scheduled meeting in his Outlook calendar

FR-10 An employee from Sioux should be notified after how much time the visitor will be in the lobby depending on where the visitor parks

Use cases

UC number	1 – FR-01
UC name	User login
UC description	The user can login so it can use the functionalities of the app
Actor	Secretary
Preconditions	-Must have account that consists of an username and password
Steps	User access the website User puts the username User puts the password User confirms the login System validates the login System successfully logs the user System gives a message that the user is successfully logged in
Postconditions	The user successfully logged in and redirects the user to the authorized page
Exceptions	Step 5: Fails if the user puts the wrong password/username, system throws that the user failed to login. Go back to step 2.

Use cases

UC number	2 - FR-02
UC name	Create appointment
UC description	The user can create an appointment in the system
Actor	Secretary
Preconditions	-The user must be logged in
Steps	User fills the first name and last name of the visitor User fills the first name and last name of the employee User fills the E-mail User fills the phone number User fills the date and time User fills if the visitor is by car User confirms the appointment System validates the appointment System successfully added the appointment System gives a message that an appointment has been successfully created
Postconditions	The appointment is successfully created in the system
Exceptions	Step 8: Fails if the date is invalid, system throws to the user that the date if invalid. Go back to step 5. Step 8: Fails if the time is invalid, system throws to the user that the time if invalid. Go back to step 5. Step 8: Fails if the email is invalid, system throws to the user that the email if invalid. Go back to step 3. Step 8: Fails if the phone number is invalid, system throws to the user that the phone number is invalid. Go back to step 4. Step 8: Fails if the first name/last name of the employee is invalid, system throws to the user that the employee doesn't exists. Go back to step 2. Step 8: If nothing is filled, system throws that all the blanks must be filled. Go back to step 1. Step 8: If there's already an appointment set on the specified time, system throws that there's already an appointment at the specified time. Go back to step 1.

Use cases

UC number	3 - FR-03
UC name	Edit appointment
UC description	The user can edit an appointment in the system
Actor	Secretary
Preconditions	-The user must be logged in -The appointment must exist in the system
Steps	User selects the appointment User edits the appointment User submits the appointment System validates the appointment System edits the appointment System gives a message that an appointment has been successfully edited
Postconditions	The appointment is edited in the system
Exceptions	Step 8: Fails if the first name/last name of the visitor is invalid, system throws to the user that the first name/last name is invalid. Go back to step 2. Step 8: Fails if the date is invalid, system throws to the user that the date if invalid. Go back to step 2. Step 8: Fails if the time is invalid, system throws to the user that the time if invalid. Go back to step 2. Step 8: Fails if the email is invalid, system throws to the user that the email if invalid. Go back to step 2. Step 8: Fails if the phone number is invalid, system throws to the user that the phone number is invalid. Go back to step 2. Step 8: Fails if the first name/last name of the employee is invalid, system throws to the user that the employee doesn't exists. Go back to step 2. Step 8: If nothing is filled, system throws that all the blanks must be filled. Go back to step 1. Step 8: If there's already an appointment set on the specified time, system throws that there's already an appointment at the specified time. Go back to step 1.

Use cases

UC number	4 - FR-04
UC name	Delete appointment
UC description	The user can delete an appointment in the system
Actor	Secretary
Preconditions	-The user must be logged in -The appointment must exist in the system
Steps	User selects the appointment to delete User confirms about the deleted appointment System validates the appointment System deletes the appointment System gives a message that an appointment has been successfully deleted
Postconditions	The appointment is deleted in the system
Exceptions	Step 3: If the appointment doesn't exist anymore, system throws that the appointment doesn't exist. The use case ends

Use cases

UC number	5 - FR-05
UC name	Details of employee's schedule
UC description	The user can see one of the employee's schedule
Actor	Secretary
Preconditions	-The user must be logged in -The employee must exist in the system
Steps	User fills the first name and last name User confirms the search System checks if there is an employee specified by the user System shows the employee's schedule to the user
Postconditions	The system shows the schedule to the user
Exceptions	Step 3: If the system can't find the employee throws a message that the system can't find the employee. Go back to step 1.

UC number	6 - FR-06
UC name	Overview of appointments by day
UC description	The user can see all appointments for a specified day
Actor	Secretary
Preconditions	-The user must be logged in -There must be appointments of the specified day
Steps	User selects which day they want to see the appointments for System pulls all the appointments of the specified day System shows the scheduled appointments for the specified day
Postconditions	The system shows the appointments for the selected day to the user
Exceptions	Step 2: If there are no appointments, show to the user that there are no appointments. Go back to step 1.

Use cases

UC number	7 - FR-07
UC name	Appointment confirmation to the visitor's email
UC description	The visitor should receive an email containing information about their appointment
Actor	
Preconditions	-The visitor should have a meeting scheduled
Steps	System gets all the appointment details System sends an email to the visitor
Postconditions	The visitor has an email containing information about their upcoming appointment
Exceptions	Step 1: The e-mail address is invalid. Use case ends.

Use cases

UC number	8 - FR-08
UC name	Parking notification for visitor
UC description	The visitor should receive an SMS 10 minutes before their scheduled appointment telling them where they can park
Actor	
Preconditions	-The visitor should have a meeting scheduled -During the scheduling of the meeting, the visitor has said they will come by car
Steps	System gets all the available appointments for today System checks which appointment is coming up System gets all the details of the upcoming meeting System sends an SMS to the visitor where to park
Postconditions	The visitor has an SMS telling them which parking they can park in
Exceptions	Step 3: If the visitor is not by car, cease the operation. Use case ends. Step 3: If the details does not contain a parking spot. Assign it to the alternative parking spot. Proceed with the use case. Step 1: If there are no available appointments, cease the operation. Use case ends.

Use cases

UC number	9 - FR-09
UC name	Details scheduled meeting for employee
UC description	The Sioux employee can see the scheduled meeting in his outlook calendar
Actor	Employee of Sioux
Preconditions	-The appointment must exist -The employee must exist
Steps	The employee opens his outlook calendar System gets the employee's outlook calendar System gets the appointment details of the meeting System puts the meetings in the employee's outlook calendar
Postconditions	The employee can see the scheduled meetings in his/her outlook calendar
Exceptions	Step 3: There are no appointments, cease the operation. Sends a message there's is no scheduled appointments. Use case ends.

Use cases

UC number	10 - FR-10
UC name	Notification about arrival time of the visitor to the Sioux employee with the appointment
UC description	The Sioux employee with a scheduled appointment should receive a notification about the expected arrival time of the visitor depending on where the visitor parks
Actor	
Preconditions	-There should be a scheduled appointment between the Sioux employee and the visitor -The visitor has received an SMS telling them where to park
Steps	System gets the appointment details System calculates the distance between the visitor's parking spot and the Sioux company in minutes System creates a notification containing the arrival time+ scheduled meeting details for the Sioux employee System sends a notification to the Sioux employee with a scheduled meeting
Postconditions	The Sioux employee with a scheduled meeting has received a notification containing an estimation of the visitor's arrival time
Exceptions	Step 1: The system couldn't find the appointment. Use case ends.

User stories

- **User story no.1: Log in to the platform**

Story points: 3

Priority: 10

- As a secretary at Sioux
 - I can log in to the platform
 - So that I can manage the appointments of the clients
-
- **Acceptance criteria:**
 - Only the authorized secretary can log in to the platform
 - Once logged in, the secretary has access to the app functionalities

- **User story no.2: Make an appointment**

Story points: 1

Priority: 98

- As a client of Sioux
 - I can call the secretary
 - So that I can make an appointment with one of the employees
-
- **Acceptance criteria:**
 - The client can reach the secretary by phone
 - The client makes an appointment on the spot

User stories

- **User story no.3: Make an appointment (with parking space)**

Story points: 1

Priority: 98

- **As a** client of Sioux coming by car
- I **can** call the secretary and mention that I have a car
- **So that** I can make an appointment with one of the employees and have a parking space when I have the meeting
- **Acceptance criteria:**
- When making the appointment, the client can mention that he is coming by car
- If the client comes by car, the license plate is registered in order to identify the owner

- **User story no.4: Add an appointment in the employee's schedule**

Story points: 13

Priority: 96

- **As a** secretary at Sioux
- I **can** add the appointment a client made in an employee schedule using Outlook
- **So that** both the secretary and the employee can see the schedule meetings
- **Acceptance criteria:**
- Each appointment is marked in the Outlook calendar
- The secretary can also see the scheduled appointments

User stories

- User story no.5: View scheduled meetings in the calendar

- Story points: 5
- Priority: 90
- As an employee at Sioux
- I can view all the scheduled meetings in my Outlook calendar
- So that I can easily know when and with whom I am meeting

- Acceptance criteria:

- Each employee can see only their schedule

- User story no.6: Parking notification

Story points: 8

Priority: 83

- As a client of Sioux with an appointment and coming by car
- I can receive a notification before my appointment
- So that I can know if I have a free spot in the main parking lot or I need to go in the next indicated parking

- Acceptance criteria:

- Each client with an appointment and coming by car receives a text message that notifies them if there are parking spots left
- If there are no spots left, the client is redirected to the next parking lot

User stories

- **User story no.7: Arrival notification**

Story points: 13

Priority: 82

- As an employee at Sioux
 - I can receive a notification when the client arrives with the car
 - So that I can manage my time more efficiently and be on time for the meeting
-
- Acceptance criteria:
 - The employees receive notifications when the clients arrive
 - If the clients come by car, the employees are notified when the car enters the parking lot

- **User story no.8: Managing meetings**

Story points: 13

Priority: 60

- As a secretary at Sioux
 - I can edit/update/ delete the meetings from the employee's schedules.
 - So that I can manage everyone's schedule accordingly
-
- Acceptance criteria:
 - The employees receive notifications after a change of schedule
 - The secretary can create/update/delete meetings

User stories

- **User story no.9: Overview of meetings per day**

Story points: 5

Priority: 33

- As a secretary at Sioux
 - I can see an overview of all appointments filtered by day
 - So that I can see if everything is accurate
-
- **Acceptance criteria:**
 - The secretary can see all meetings for the day

- **User story no.10: Filter meetings by an employee**

Story points: 5

Priority: 35

- As a secretary at Sioux
 - I can filter the meetings by an employee
 - So that I can see all the meetings that employee has scheduled
-
- **Acceptance criteria:**
 - The secretary can filter the meetings by an employee

WebApp

Overview Create New Booking Schedule

First name + last name

Date + time

Email

Phone

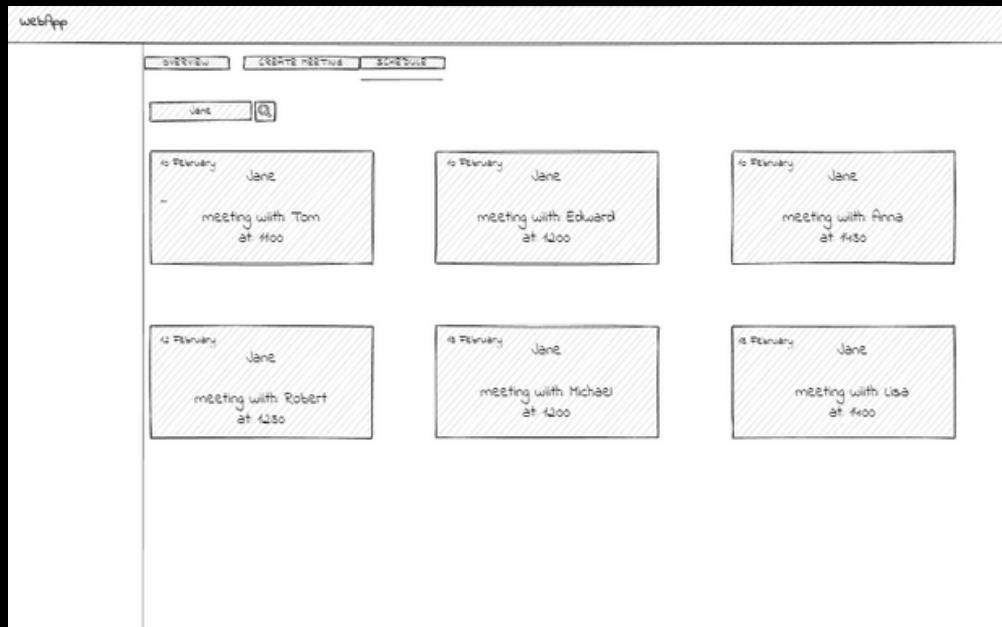
Appointment with

With car ☒

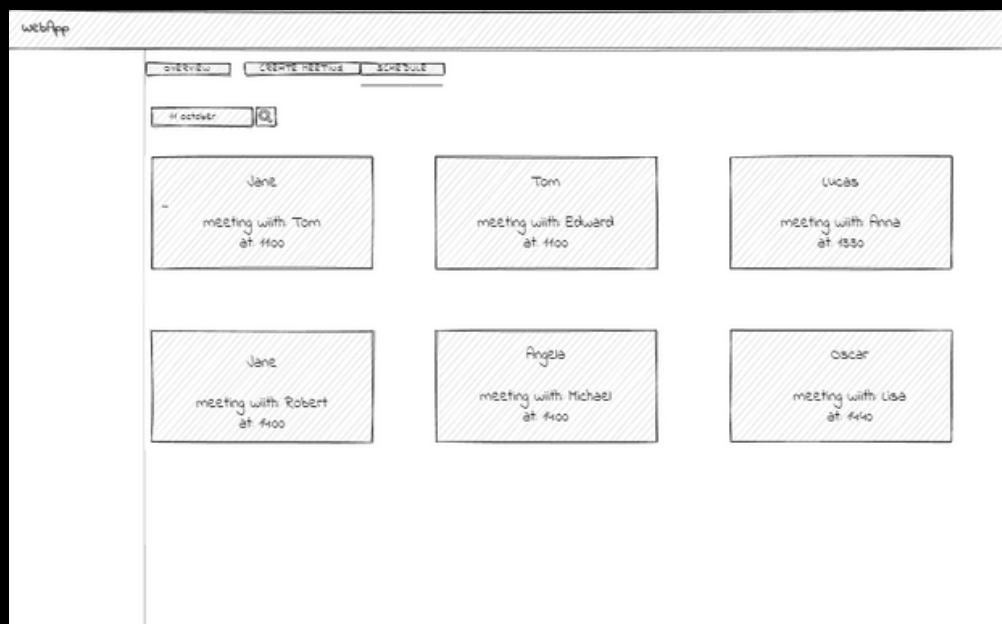
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Wireframes



Meetings filtered by employee



Meetings filtered by day