

System Requirements

1) problem description

Design and implement an app used for a company's employees leveraging Microsoft Teams. It uses the calendar, contacts and notification system to schedule rides, notify the user, which in turn creates a more efficient way of travel for the employees..

2) main actors and the role they meet when interacting with the application

- employee : An employee will be able to log in using their Company Microsoft Account and sync up with other employees to efficiently commute to work.
- Microsoft Teams : Microsoft Teams provides the application with input information for its internal algorithms.

3) main usage scenarios for each actor

Employee:

- set up usual routes: The employees will be able to set up their routes to work. (EXCEPTION: The maps get changed, or Changes to the roads)
- set up departure time: Employees can input at which time they need to be picked up from their location (EXCEPTION: They changed their address EXCEPTION2: They left the company)
- set up arriving time: Employees can input at which time they need to arrive at their destination. (EXCEPTION: They changed their address EXCEPTION2: They left the company)
- set up home address: An user will be able to set the address at where they are a resident (EXCEPTION: Home address is not recognized)
- choose a role: Users will select the role they want. If they are driver/flexible they need to provide the passenger capacity and car fuel consumption
- set availability: Ability for users to set up off days (EXCEPTION: The user changes his off days)
- set preferences: Employees can set up preferences according to their role
- send messages: An employee can send text messages to other coworkers. (EXCEPTION: The recipient does not exist)
- receive messages : An employee can receive text messages from other coworkers.
- receive reminders/notifications : Users will get notified when their ride arrives. If. Drivers will be notified when they have to depart to pick up the passengers

Microsoft Teams:

- Provides Employee Contact info: The Microsoft Teams API provides the employee contact info to all users using the application

- Provides Employee Calendar info: The Microsoft Teams API provides the employee Calendar info to all users using the application
- Provides Preferences of employees: The Microsoft Teams API provides the employee Preferences to all users using the application
- Provides the communication system: Using Microsoft Teams the communication system can be integrated with the application for the users.
- Sends notifications/reminders: The Microsoft Teams API will provide the Notifications and reminders to the users from the application.