Timely

Developing by "**ScheduleWizards**".

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Customer:

Business Tech. Inc

What is Timely?

Timely is the web application for scheduling and booking classrooms at at Ivan Franko National University of Lviv is designed to facilitate the management of educational and training facilities. With this application, users can create schedules and reserve classrooms according to their availability and preferences.

The application has a user-friendly interface that allows administrators to manage different classrooms, including their capacities, equipment, and other resources. The application also provides a feature for users to search and filter classrooms based on their needs, such as location, capacity, and availability.

To use the application, users need to sign up and create an account. After that, they can create schedules and reserve classrooms by selecting the date, time, and room they want to book. The application also sends notifications to users regarding their bookings, cancellations, and reminders.

The web application also has an analytics module that allows administrators to track room utilization and occupancy rates. This feature helps them optimize the scheduling of rooms and avoid conflicts and overbooking.

Overall, the web application for scheduling and booking classrooms is an essential tool for educational and training institutions to manage their resources efficiently and ensure a smooth and productive learning experience.

Type of application:

Web application

Interface language:

English

Development tools:

Developing: C# ASP.NET

UI: HTML, CSS, JavaScript, React

Database: PostgreSQL

Roles:

Role	Description
Student	A student can log in to the application and view the schedule of available classrooms. They can search for classrooms based on location, capacity, and availability, and view detailed information about each classroom. However, they are not able to reserve or book any classrooms themselves. Students can receive notifications about their bookings, but these bookings would need to be made by a teacher or admin.
Teacher	A teacher can log in to the application and view the schedule of available classrooms. They can then reserve a classroom for their class or group, subject to availability. Teachers can receive notifications about their bookings. Additionally, they can cancel bookings if necessary.
Admin	An admin has full control over the application and can manage classrooms, users, and bookings. They can add new classrooms, edit existing ones, and delete them if necessary. Admins can also view the booking history of all users and generate reports on room utilization and occupancy rates.
Guest	A guest who hasn't logged in or registered won't be able to view the schedule of classrooms, to ensure that people who aren't affiliated with the university cannot see the occupancy schedule of its classrooms.

Account management system:

Role	Use-case	Description
Guest	Sign up	Sign up in a system
	Log in	Log in to a system
Teacher/Student	Log out	Log out of a system

Scheduling management system:

№	Role	Use-case	Description
1.		View the schedule of available classrooms	Teachers can log in to the application and view the schedule of available classrooms. They can see which classrooms are available for specific time slots and dates.
2.		Reserve a classroom	Teachers can reserve a classroom for their class or group, subject to availability. They can select the date, time, and room they want to book and specify the purpose of the booking. Teachers can also view their own booking history and receive notifications about their bookings.
3.	Teacher	Cancel bookings	Teachers can cancel a booking if necessary. They may need to cancel a booking due to unforeseen circumstances, such as a change in schedule or location. Edit bookings: If a teacher needs to change the details of a booking, such as the date, time, or purpose of the booking, they can edit the booking.
4.		Edit bookings	If a teacher needs to change the details of a booking, such as the date, time, or purpose of the booking, they can edit the booking.
5.		Add notes and attachments	Teachers can add notes or attachments to their booking, such as lesson plans, presentations, or other materials relevant to the class.
6.		View classroom details	Teachers can view detailed information about each classroom, including its location, capacity, equipment, and other resources available.
7.		Receive notifications	Teachers can receive notifications about their bookings, including reminders about upcoming bookings, notifications about

№	Role	Use-case	Description
			cancellations or changes, and reports on room utilization and occupancy rates.

Scheduling management system:

| №	Role	Use-case	Description
1.		Create a personalized schedule	The web application may allow the student to create a personalized schedule based on their course load and availability. The student can input their class timings, break times, and preferred locations to generate a customized schedule.
2.	**Student**	View available classrooms	The web application may provide a list of available classrooms for booking. The student can filter the results based on location, size, and availability to find the most suitable classroom.
3.		Receive notifications	The web application may send notifications to the student regarding upcoming bookings, changes to the schedule, or any other relevant updates. This can help the student stay informed and organized.

Scheduling management system:

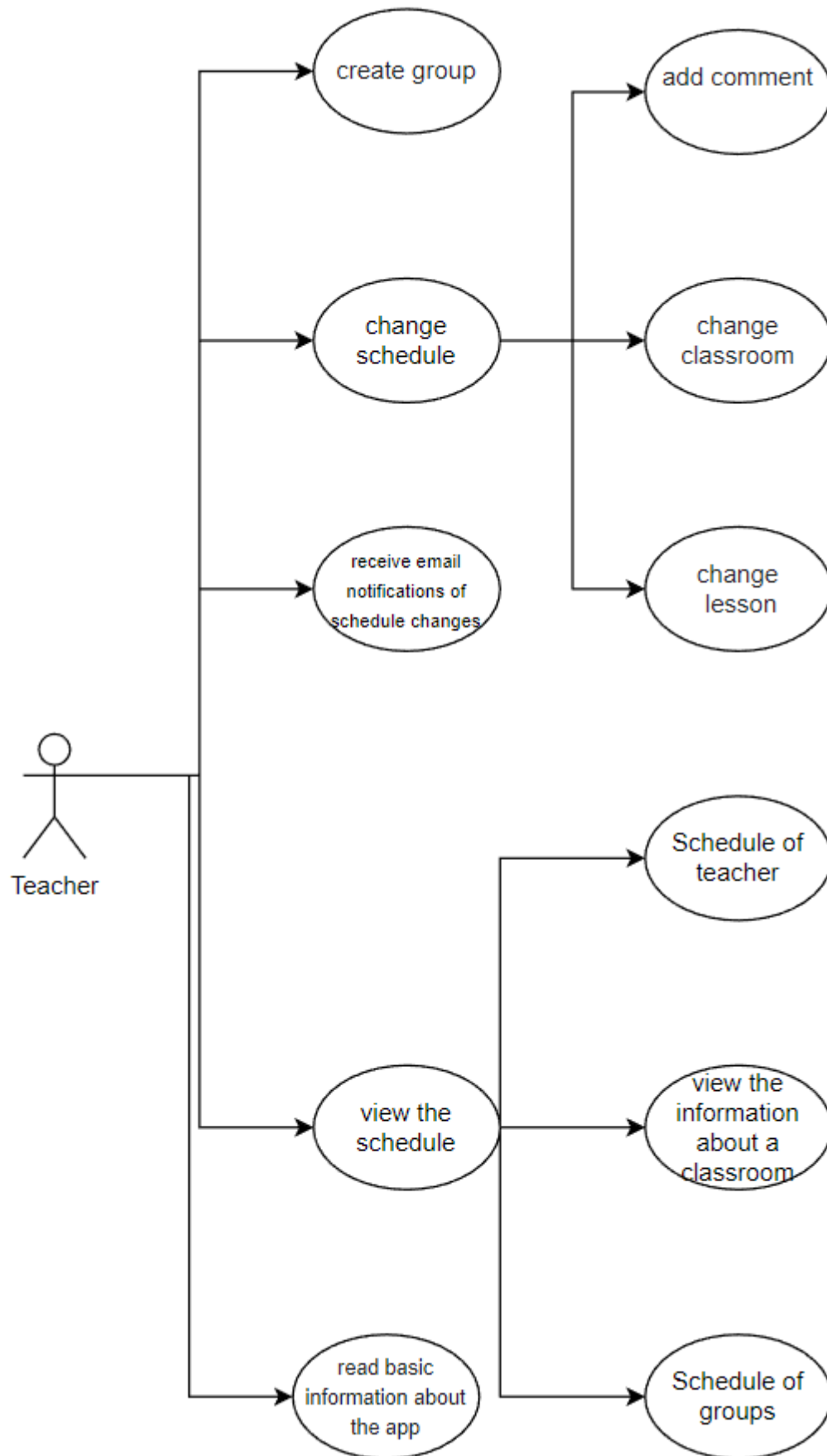| №	Role	Use-case	Description
1.		Creating and managing schedules	As an admin, you can create schedules for each classroom, set the availability of each classroom, and manage scheduling conflicts.
2.		Managing classroom resources	You can manage the resources available in each classroom, such as projectors, computers, and other equipment.
3.		Booking classrooms	You can book classrooms for Teachers and Students as per their availability, requirements, and preferences.
4.		Assigning roles and permissions	You can assign roles and permissions to Teachers and Students, such as the ability to book classrooms, create schedules, or manage resources.
5.		Generating reports	You can generate reports to track classroom usage, availability, and bookings.
6.	Admin	Customizing the application	You can customize the application to fit your school's needs and preferences, such as adding custom fields or modifying the interface.
7.		Setting up notifications	You can set up notifications for Teachers and Students to remind them of upcoming classes or changes in the classroom schedule.
8.		Integrating with other systems	You can integrate the application with other systems, such as student information systems or learning management systems, to streamline the scheduling process.
9.		Managing user accounts	You can manage user accounts, such as resetting passwords, adding or deleting users, and updating user profiles.
10.		Providing support	As an admin, you can provide support to users, such as answering their questions, resolving their issues, and providing guidance on how to use the application.

Guest's use-case diagram:
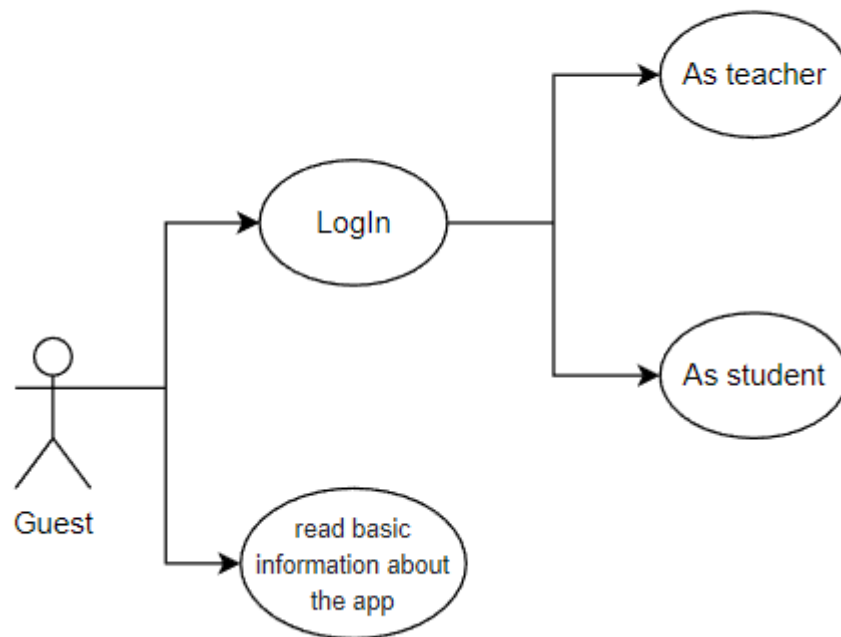
Student's use-case diagram:
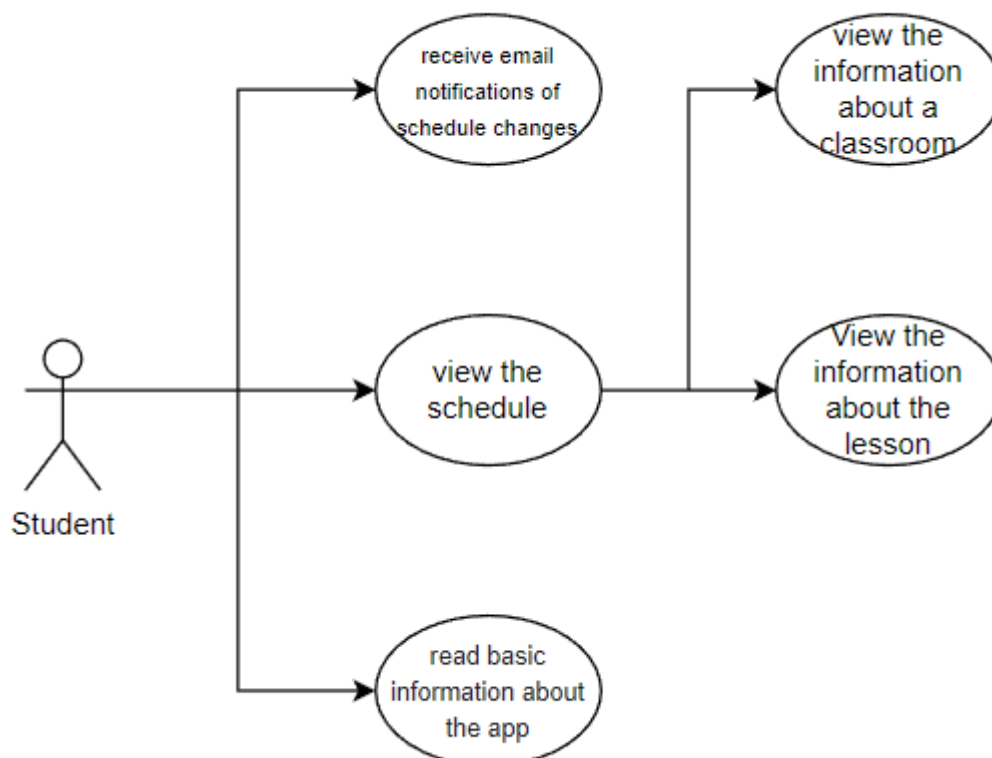
Teacher's use-case diagram:

Admin's use-case diagram: