https://youtu.be/D9SWaVoBS3M

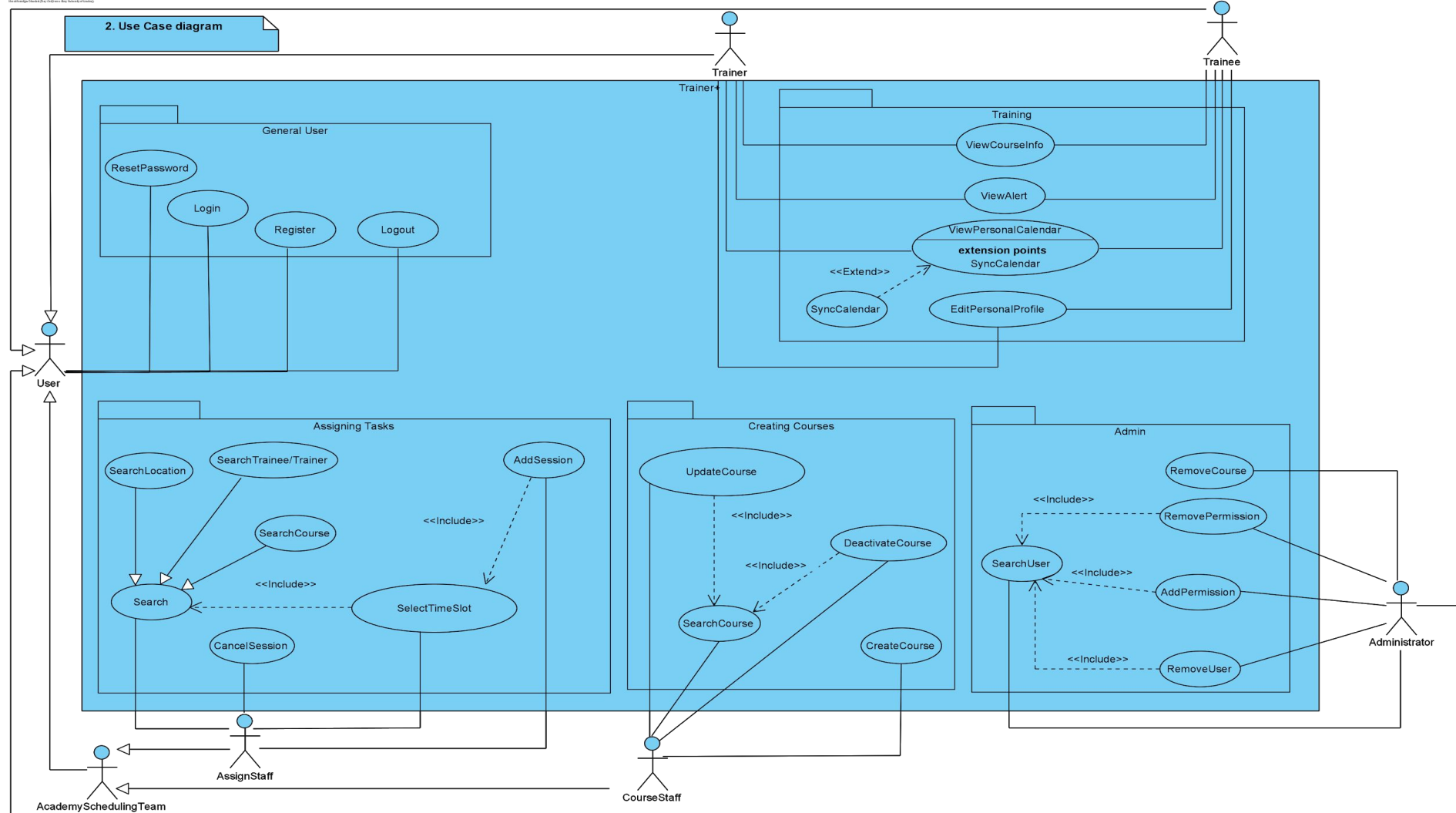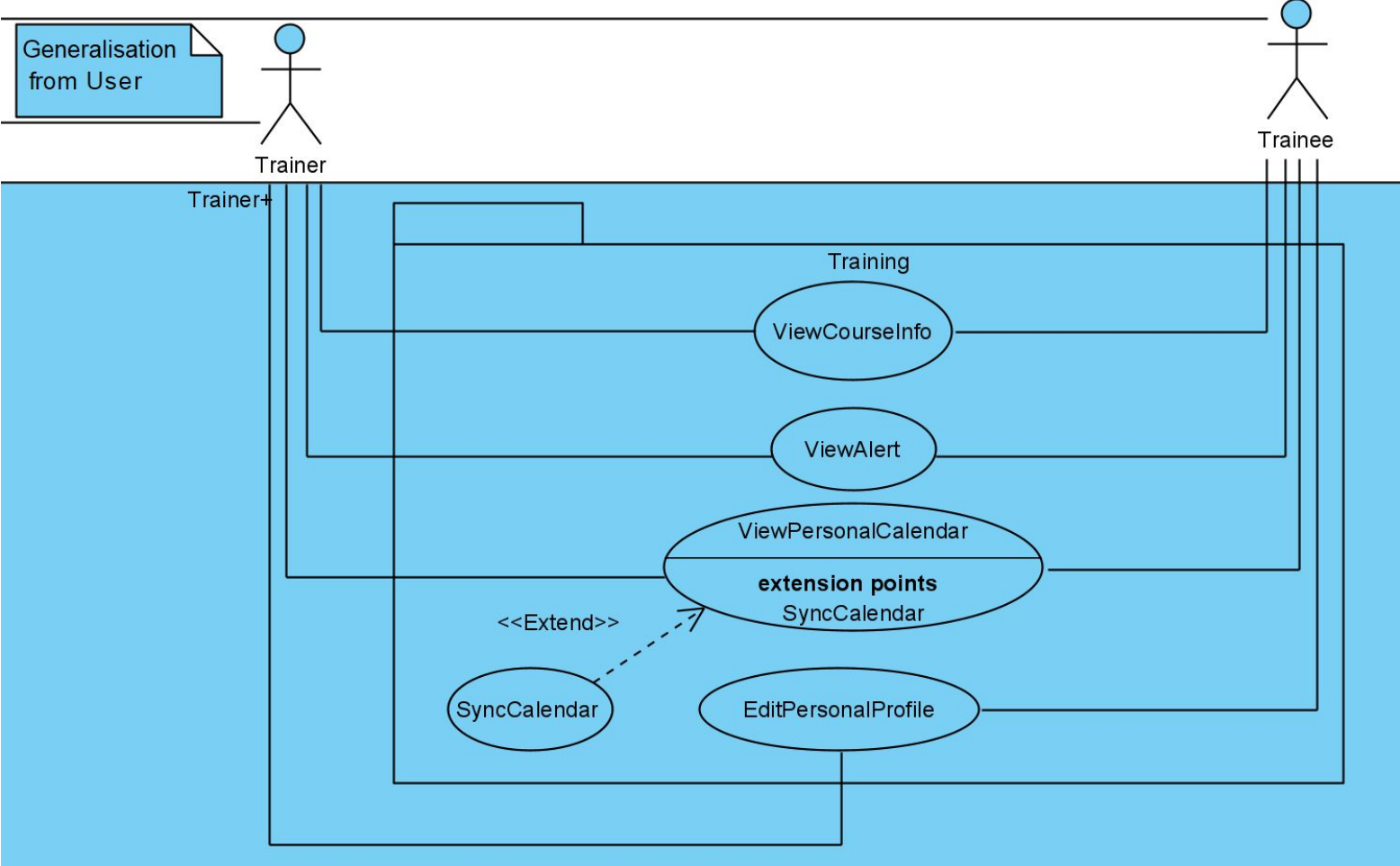Youtube Link

Trainer+

Group 30

2. Use Case diagram

General User

General User

ResetPassword
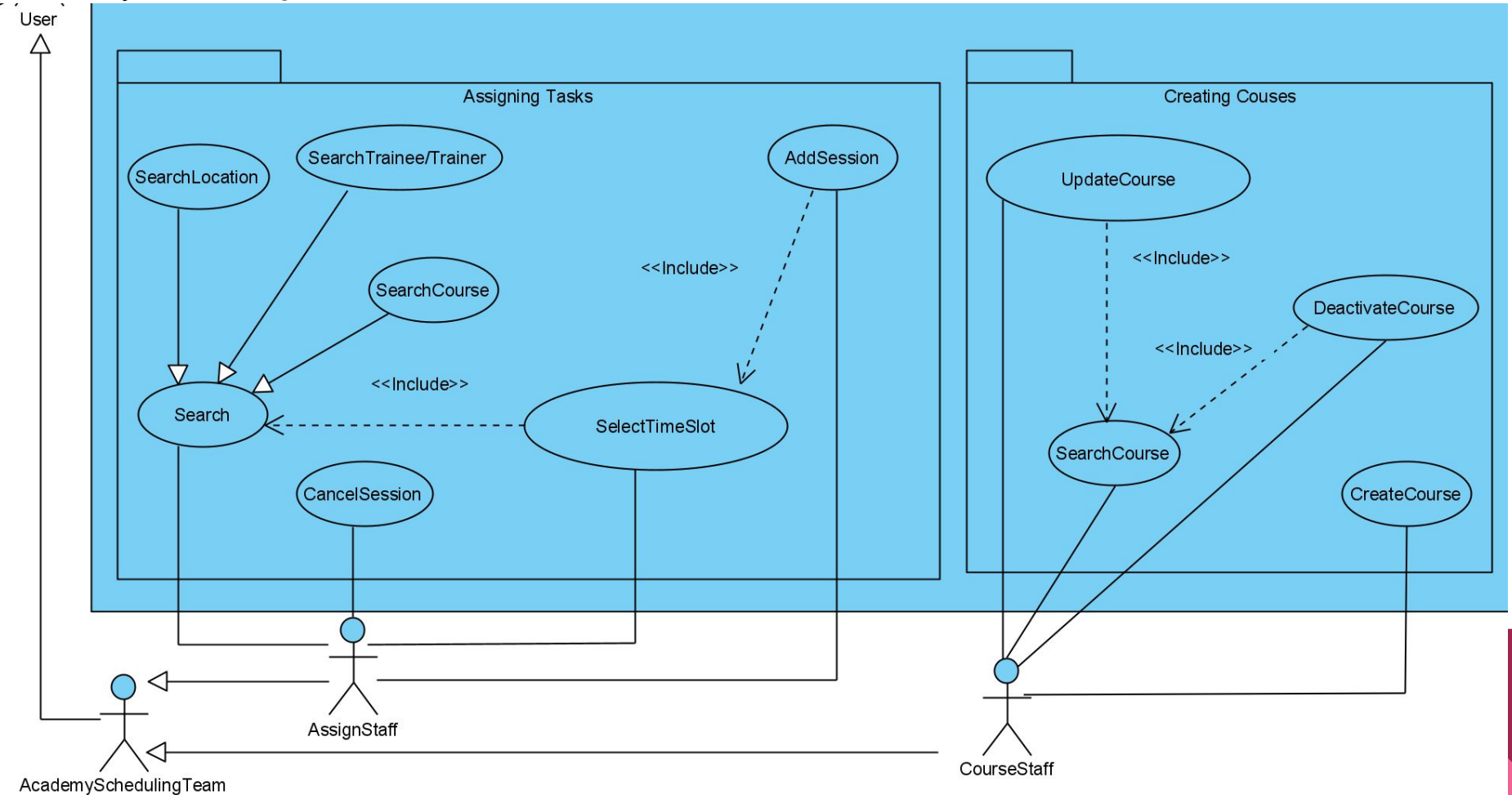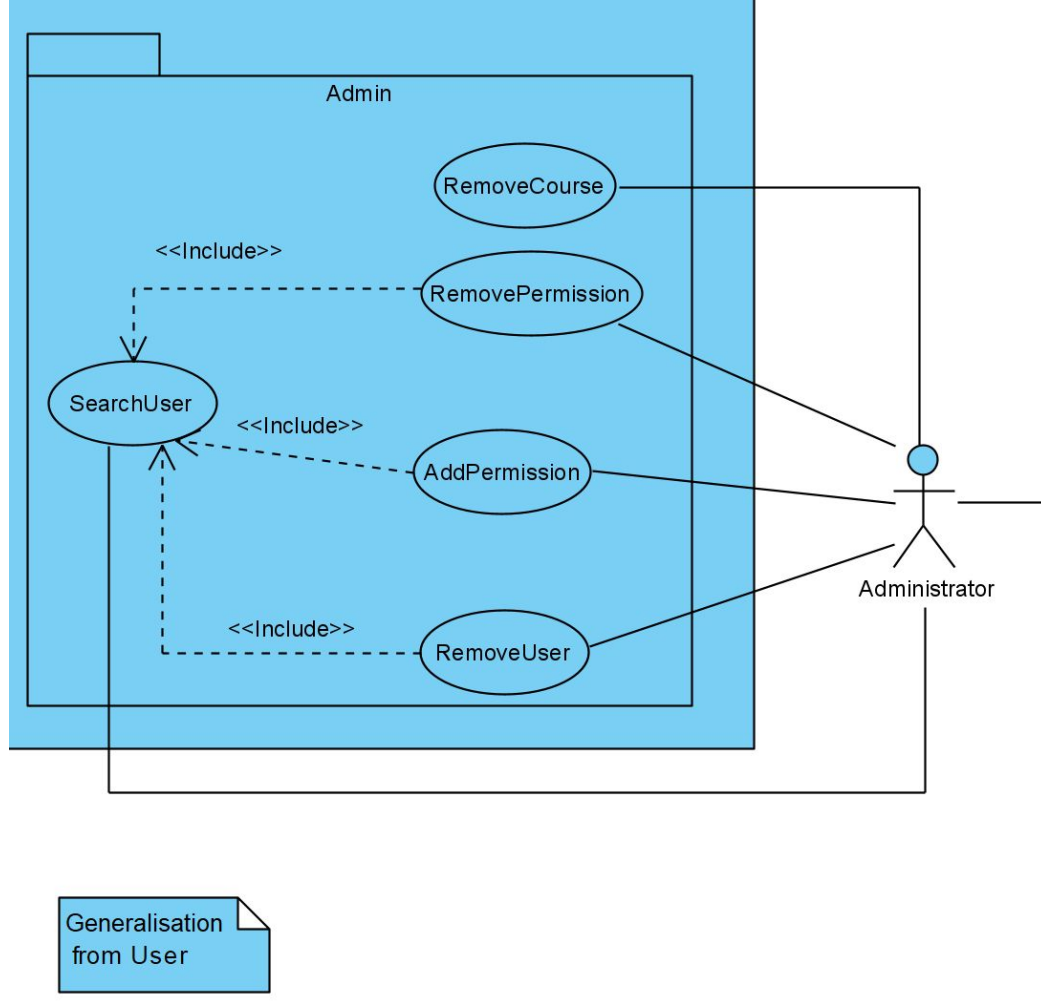
Login

Register

Logout

User
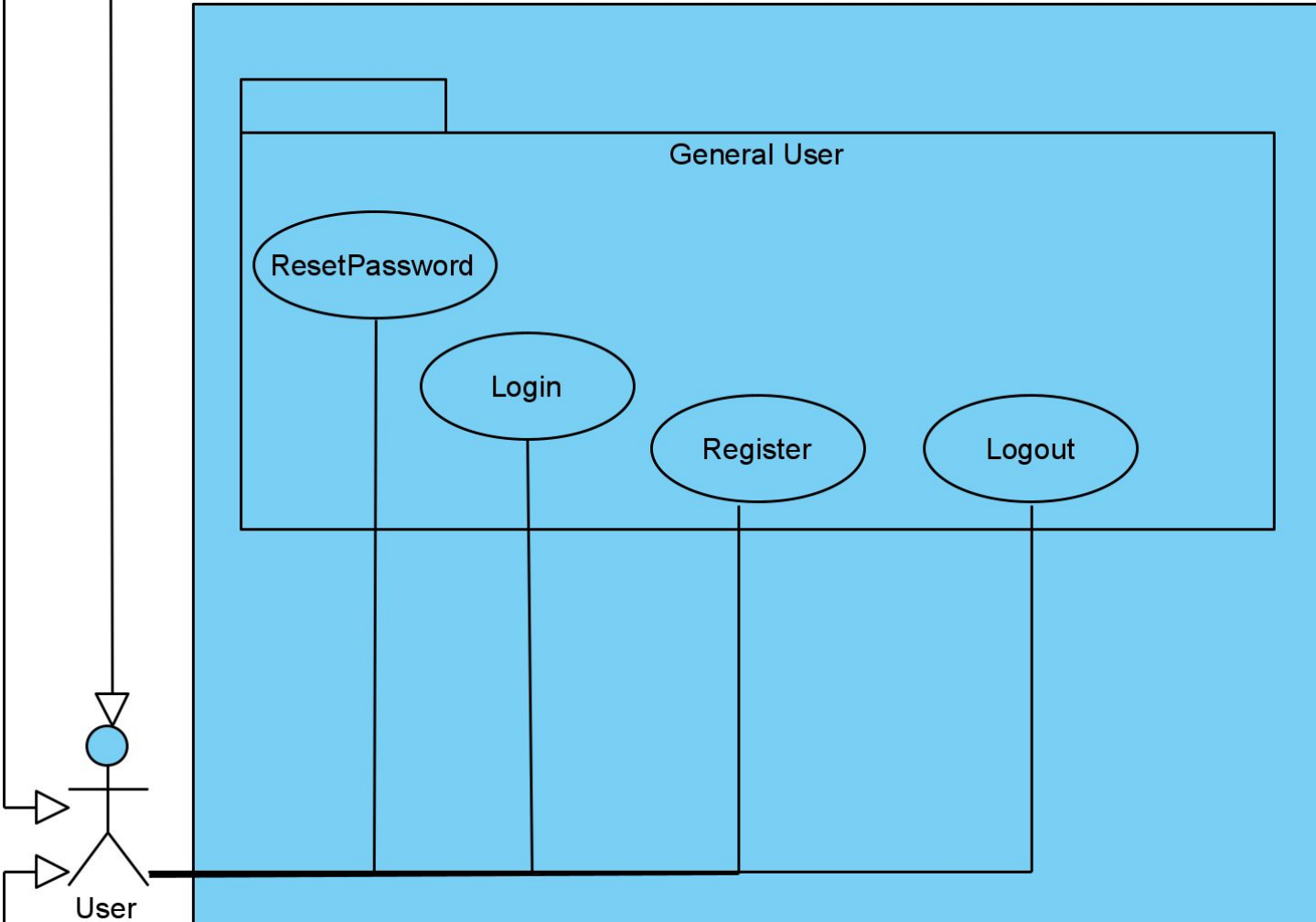
Trainer and Trainee

Academy Scheduling Team

Administrator

Key Use Case

- Register (access level descending order)
  - Admin
  - Academy Scheduling Team
    - Assign staff
    - Course staff
  - Trainer
  - Trainee
- Add session
  - Location
  - Course
  - Timeslot
  - Trainer
  - Trainee

Changes made from Domain Analysis

- Considered face to face functionality (e.g. Room Availability)
- Incorporate compatibility with MacOS
- Working with specific third-party apps
  - Microsoft Teams
  - Outlook calendar

Key Functional Requirements

- View Calendar on permission
- Create courses
- Assign Courses
- View alerts
- Remove user
- Hash passwords
- Synchronise Calendar

Non-functional Requirements

- Programming Language - Java 8 D.K.
- Database - MySQL Connector/J 8.0.
- Graphics - JavaFX 8.
- Operating System:
  a. Windows 10 (32/64-bit)
  b. MacOS (64-bit)
- Devices - Laptops & Desktops:
  a. 1 GHz of CPU
  b. 2 GB of RAM
  c. 16 GB of free hard drive space.

Minimum specifications.

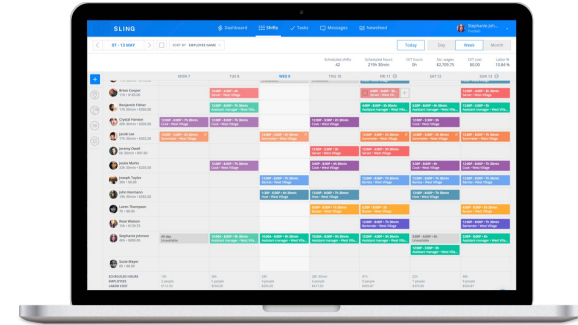# Non-functional Requirements

- Availability - At least 98% uptime per year.
- Maintenance - 28.80 min / day between 1 - 2 am GMT.
- Security - No authentication = No system activities.
- Confidentiality - Shall comply with the General Data Protection Regulation from unauthorized personnel.
- Performance - Support a minimum of 5,000 concurrent sessions per second.

Non-functional Requirements

Response Time & Speed:

- Login/logout a user within 5 seconds.
- Notify the trainer & trainee of 30 minutes before an event starts.
- Maximum of 7 seconds when displaying:
  a. Courses
  b. Searches
  c. Personal calendar & profile.
- Maximum of 10 seconds user input response time when:
  a. Creating/Updating/Deactivating/Removing courses.
  b. Altering user permissions.
  c. Adding/cancelling sessions.

Non-functional Requirements

- Recovery - Restart 17 to 25 minutes after failure.
- Size - Occupy less than 350 megabytes.
- Usability - Will require up 2 to 5 hours of training time to understand how to perform tasks within the system.

Risks assessment and management

Risk	Likelihood	Severity	Impact	Preventative/Mitigating Actions
Budgeting Uncertainty	High	High	A lack or an excess of resources to work with	Record variances between budget and spent figures to exert control.
Lack of motivation	Low	High	Disengagement from the project and the product	Frequent meetings emphasizing wellness and engagement
Poor Documentation	High	Medium	Lack of knowledge during and after the process	Predetermine the frequency, conventions and storage of all records
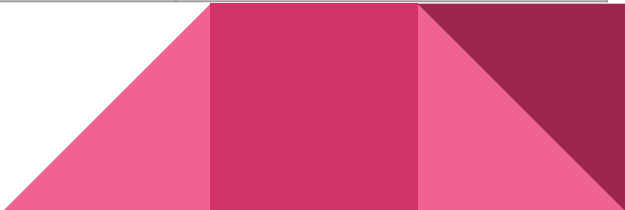
Risk	Likelihood	Severity	Impact	Preventative/Mitigating Actions
Resource shortfall	Medium	High	Personas unable to use product	Research and estimate number of users
Ill health and wellness of members	Medium	High	Poor delivery of final product	Maintain regular exercise and healthy diet
Scope creep	Low	Medium	Unnecessary product features and waste of resources	Remain focused on main product features described by the client