

Important Announcement


1. VMs are ready for all groups
 - Each group has 1 VM: IP address and SSH key are available in the discussion forum of the group
 - Login: Team-XX with the ssh key
 - Hostname for PUTTY: Team-XX@ip-address
 - SSH on CLI: Need to convert ppk to private key .pem using puttygen (follow instruction on LMS)
2. Groups need to create your own GitHub repository
 - Add us as member of the repo:
Raymond.Chan@singaporetech.edu.sg,
truonghuu.tram@singaporetech.edu.sg,
AF_KeeWoon.Tan@singaporetech.edu.sg

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Group Forum

Topic	Threads	Posts
Project Group - Group 1 (P2)	1	1 (1)
 Group/section restrictions.		

Deliverable 1 details

1. Overview of application and description of stakeholders

- Clear description of application
- Identify all relevant stakeholders and intended users of the application
- Application shows impact, creativity and usefulness

2. Functional/non-functional requirements

- Identify at least 3 relevant functional and 3 non-functional requirements in addition to login and CRUD (1 Create, 1 Read, 1 Update and 1 Delete)

3. Security requirements

- Based on functional/non-functional requirements, identify security requirements and describe their relevance

Deliverable 1 details

4. Abuse/misuse case diagrams

- Correctly captures all relevant use case/misuse case in diagrams that comply with proper UML notation. We expect one use case may have one corresponding abuse/misuse case.

5. Potential risk of application

- Identify, describe and rank the criticality of potential risk. (e.g., data leakage)

6. Threat modelling

- Based on your team's user cases, misuse cases and risks identified in
- Apply Microsoft Threat Modeling tool / OWASP Threat Dragon
- One level 0 Data flow diagram

7. Attack surface analysis

- List out the problem attack surfaces of the application

Deliverable 1 details

8. Security architecture

- System architecture (Physical & Logical)
- Your team is allowed to use more VMs (provided by yourselves) if you prefer. However, web app front must still be from our provided VMs on Digital Ocean. Please also make sure to **configure your VM correctly** so that your VM service provider won't charge you extra money.

9. Security design

- Design the application based on your team's security requirements identified
- Address the threats identified in your threat modelling and attack surface analysis
- Database Schema (if any)

Page limit: **30** pages. (exclude cover page and appendix)

Deadline: Week 5, Friday **30 Sep 4:00 pm**

Lab 2

1. Try the SecurityRAT
2. Define the security requirements for your application
3. Define and draw the use case / misuse case for their application