



108-1 Software Engineering – Team#1

Clinic Management System

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Outline



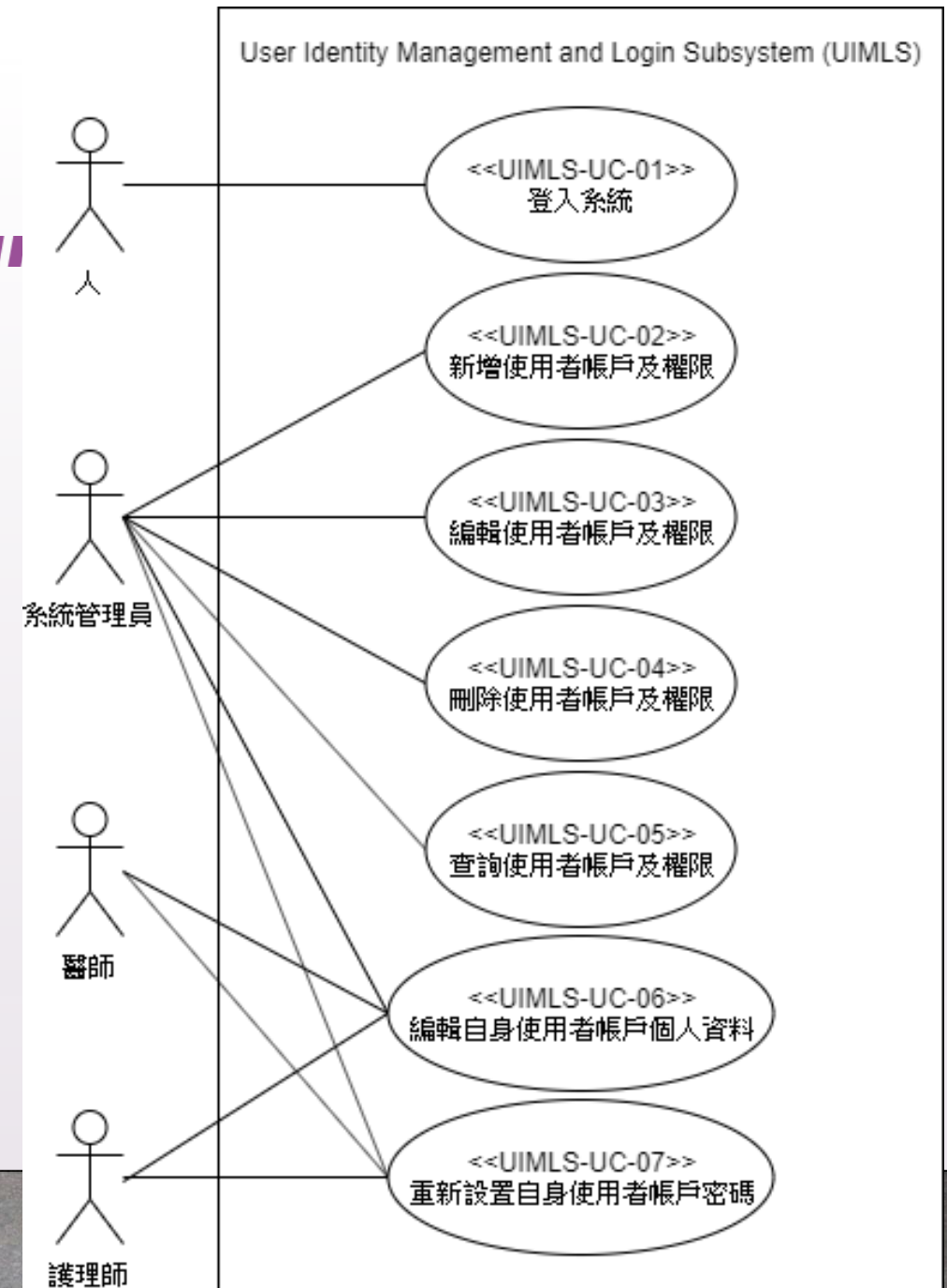
- **I.** Use cases
- **II.** System Architecture Design
- **III.** Analysis and Design Model
- **IV.** The uses of CASE tools
- **V.** Implementation
- **VI.** Personal Evaluation to Project Contributions
- **VII.** Project Retrospective



I. Use cases

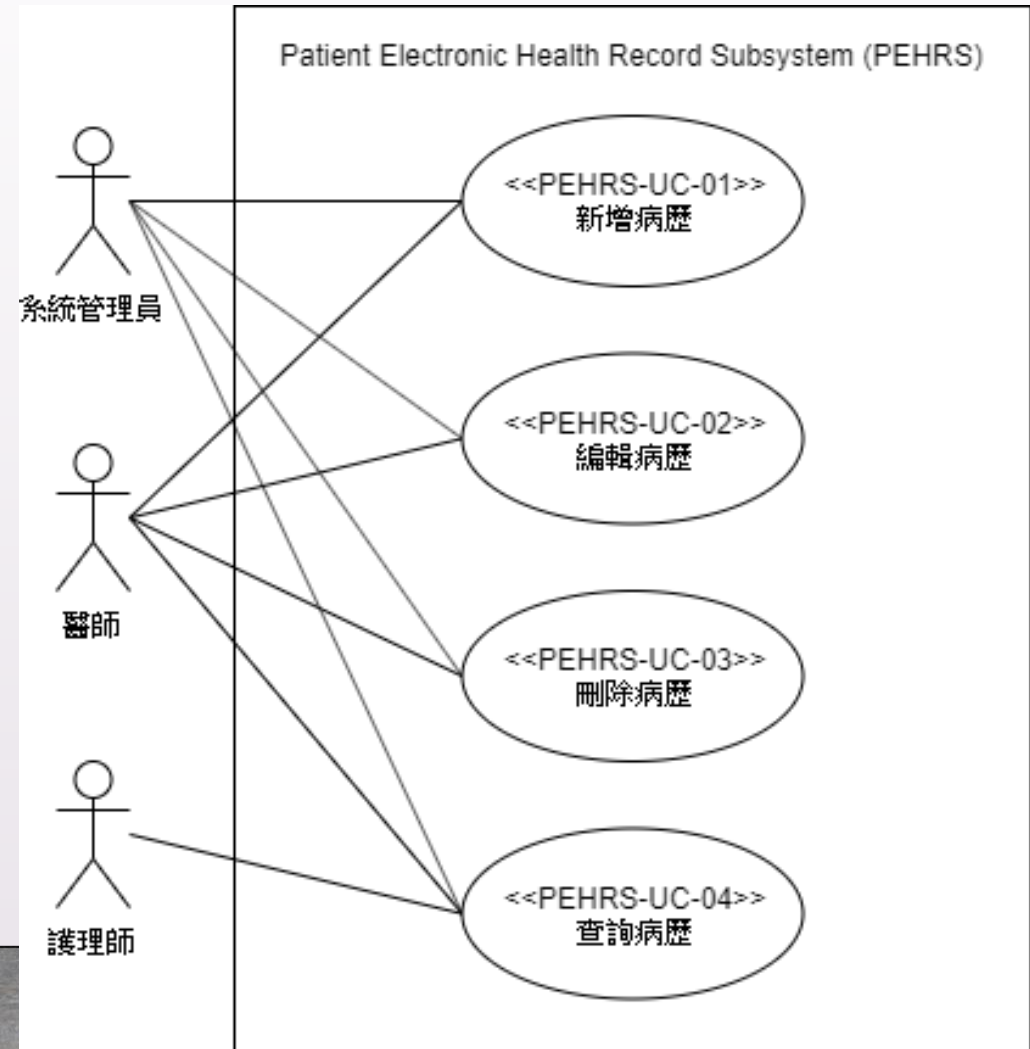
I. Use cases – UIMLS

- User Identity Management and Login Subsystem



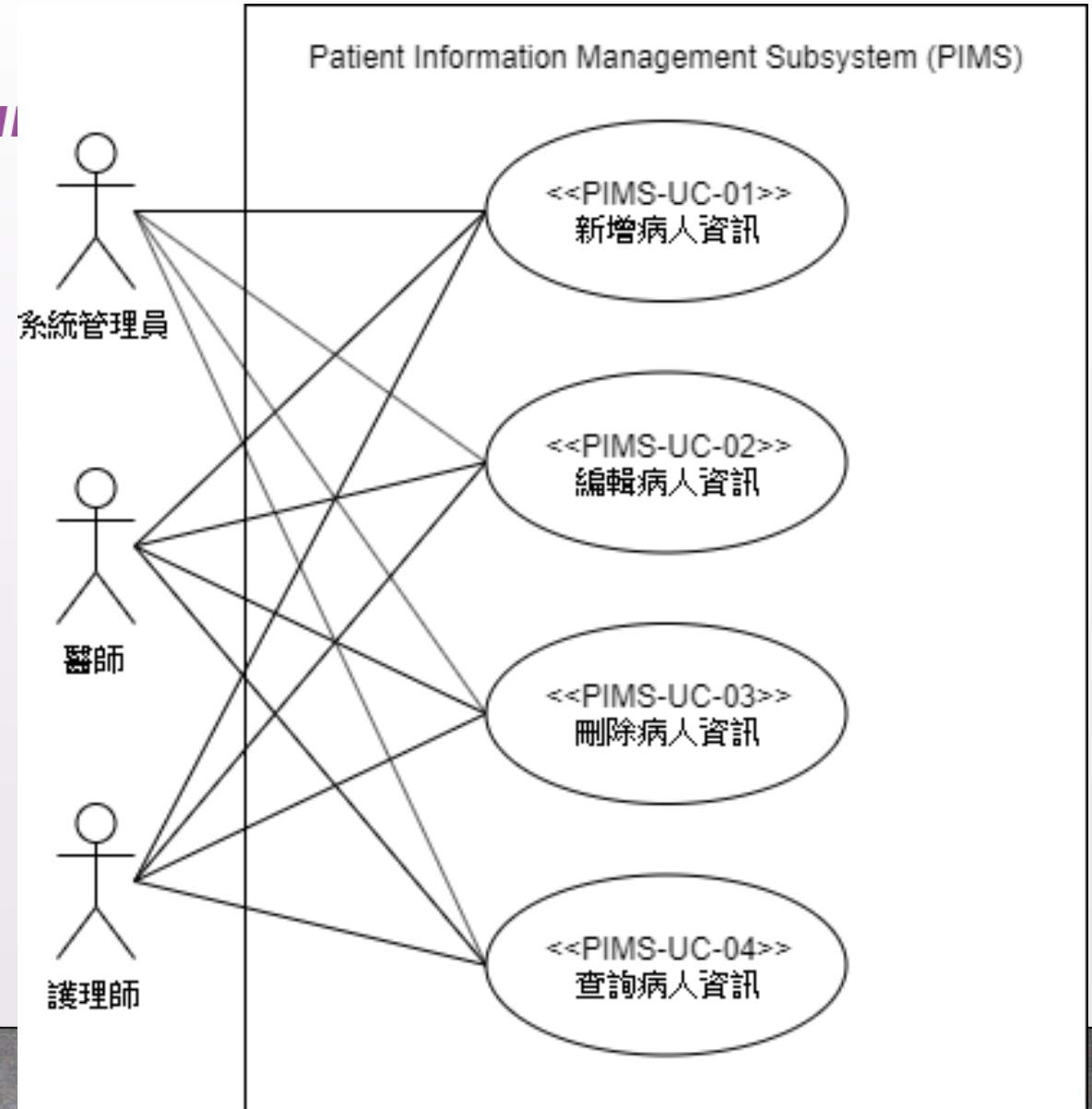
I. Use cases – PEHRS

- Patient Electronic Health Record Subsystem (PEHRS)



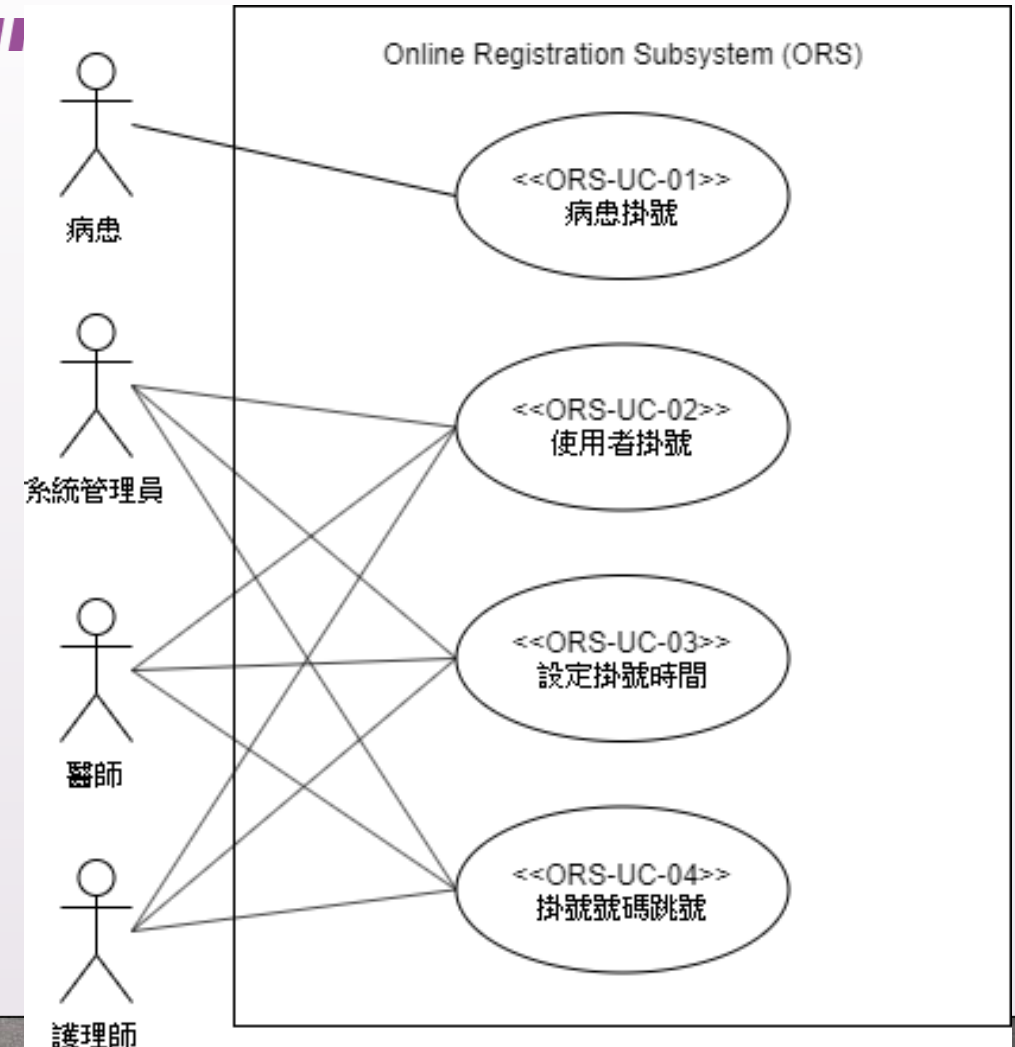
I. Use cases – PIMS

- Patient Information Management Subsystem (PIMS)



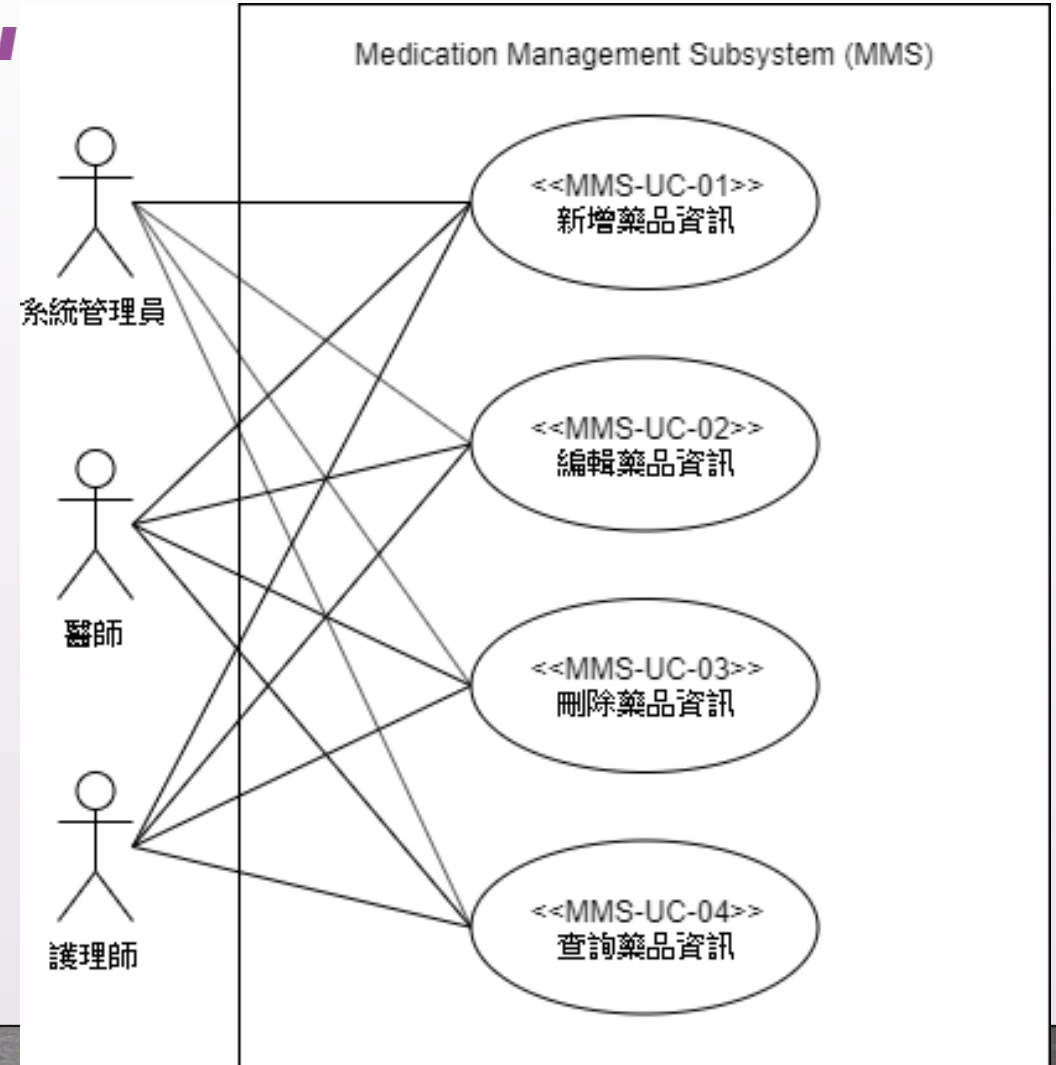
I. Use cases – ORS

- Online Registration Subsystem (ORS)



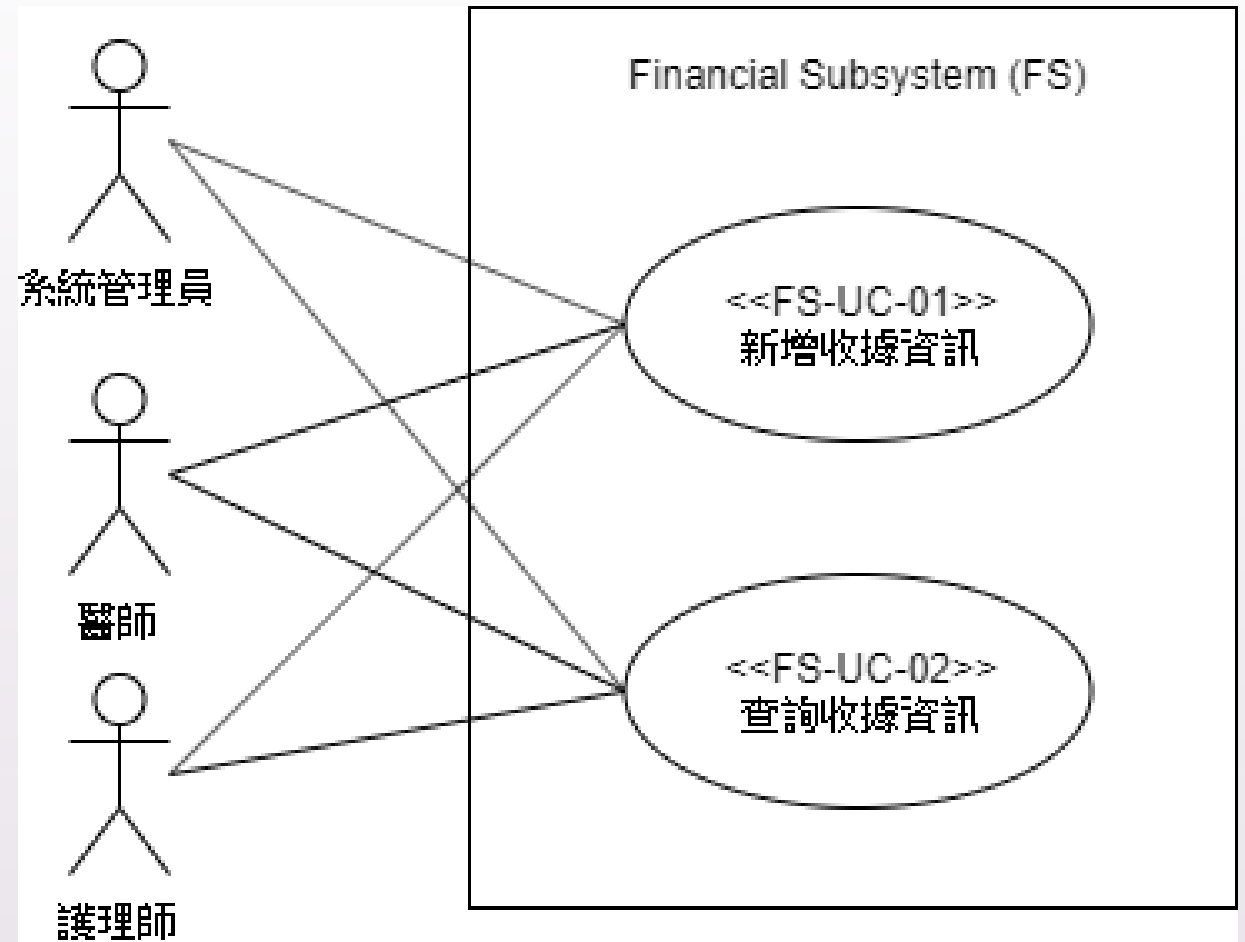
I. Use cases – MMS

- Medication Management Subsystem (MMS)



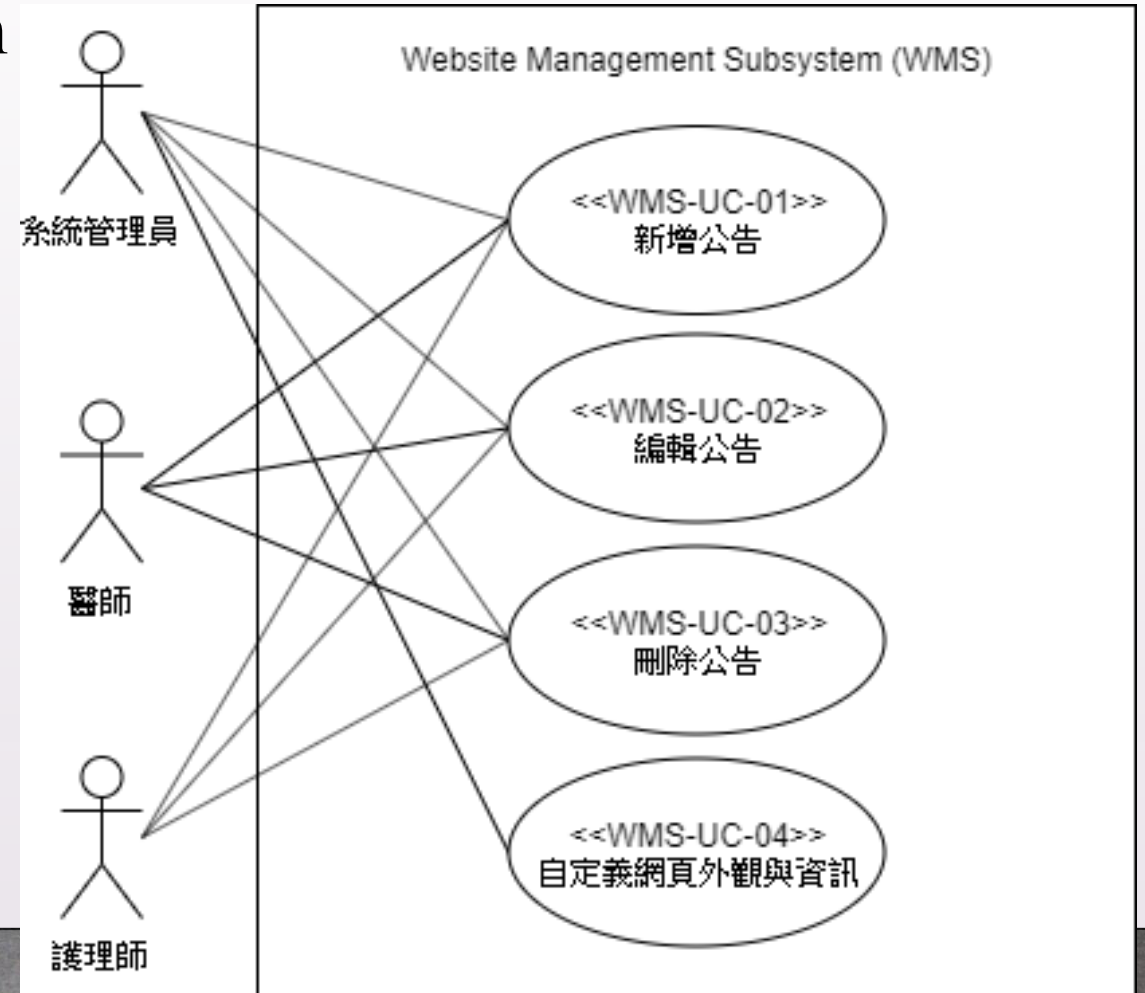
I. Use cases – FS

- Financial Subsystem (FS)



I. Use cases – WMS

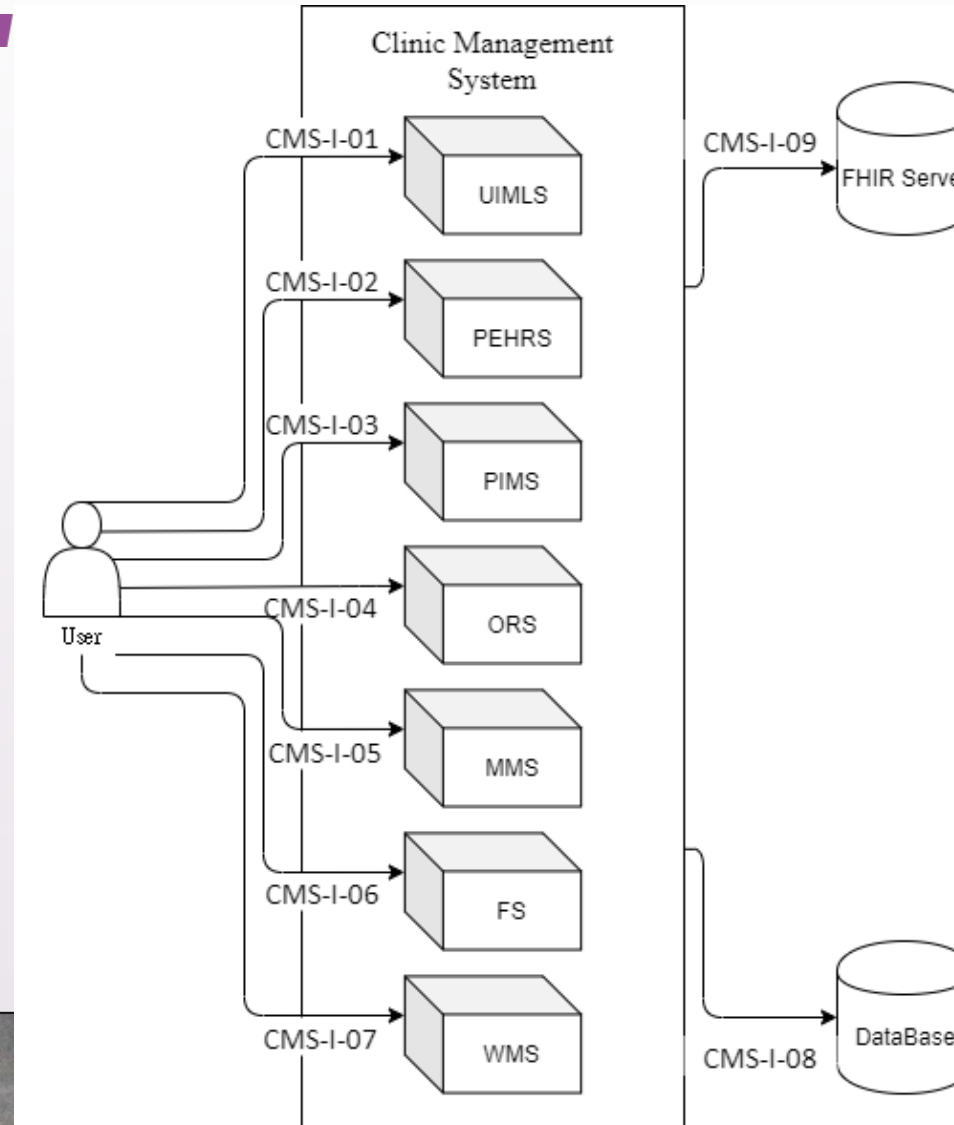
- Website Management Subsystem (WMS)





II. System Architecture Design

II. System Architecture





III. Analysis and Design Model

III. Analysis and Design Model



- Use Cases Analysis
- User Interfaces Analysis
- Static Model
- Dynamic Model
- Traceability Matrix – Requirements v.s. Components
- Traceability Matrix – Use Cases v.s. Classes
- Traceability Matrix – Classes v.s. Classes



IV. The uses of CASE tools

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- Unit Test: pytest
- Configuration Management: Git
- Continuous Integration: Github actions
- Code coverage: codecov
- Front-End Deploy: Github actions & gh-pages
- GitHub

Front-End: <https://github.com/NTUT-108-SE/CMS-Frontend>

Back-End: <https://github.com/NTUT-108-SE/CMS-Backend>



V. Implementation



<https://cms.mino.tw>



VI. Personal Evaluation to Project Contributions

VI. Personal Evaluation to Project Contributions



Name	前端	後端	文件
劉孝忠	10%	70%	20%
蕭文全	90%	0%	10%
古兆瑋	0%	30%	70%
黃俊凱	90%	0%	10%
陳冠穎	0%	10%	90%

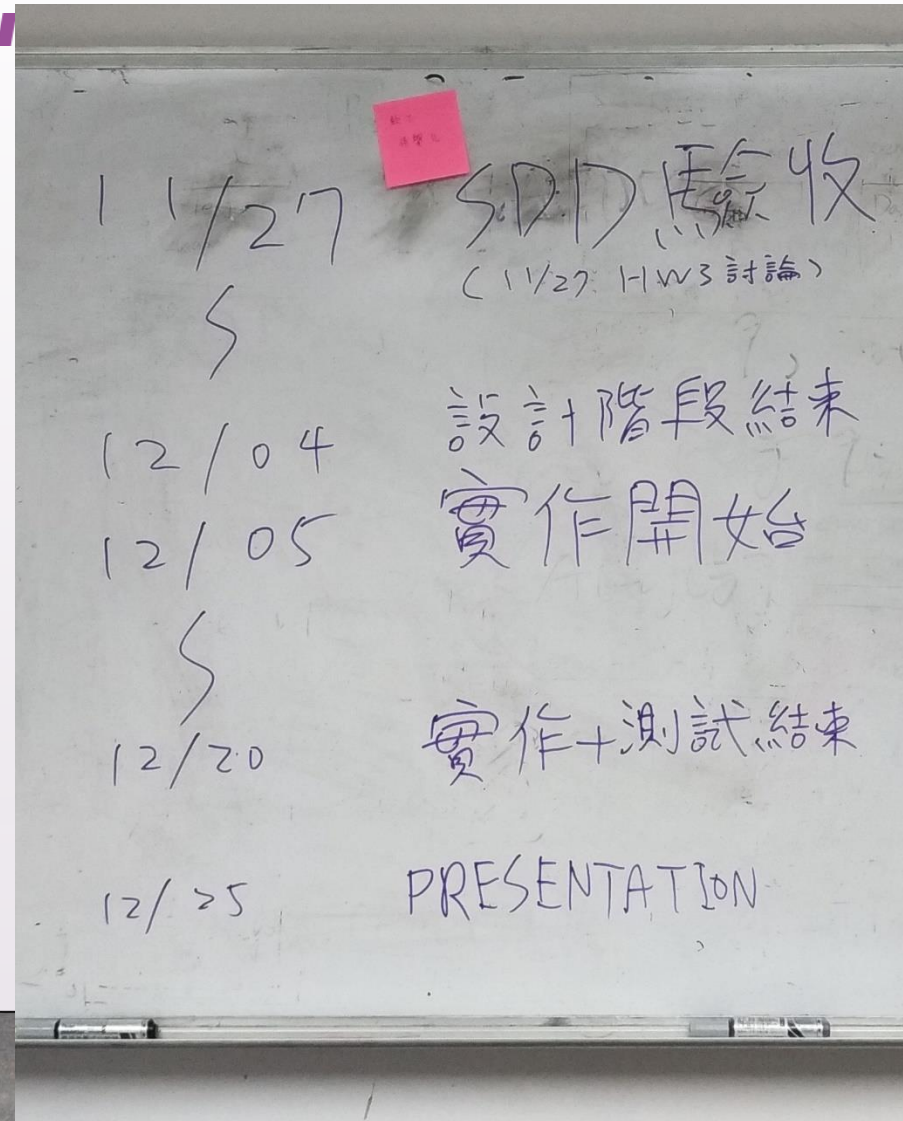


VII. Project Retrospective

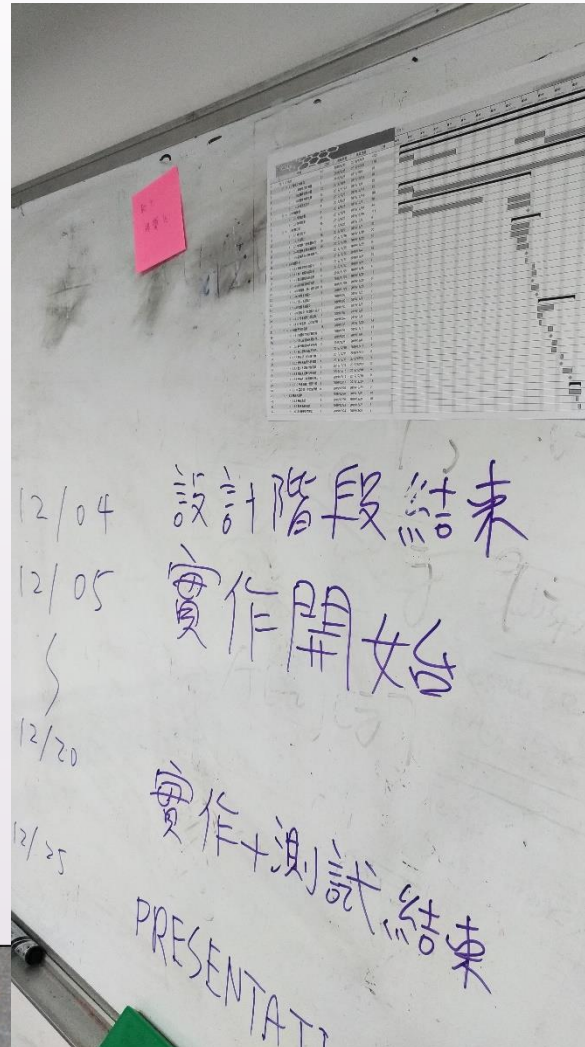
VII. Project Retrospective

- 開發時程評估與規劃
- 功能及架構設計
- 前端測試
- FHIR速度

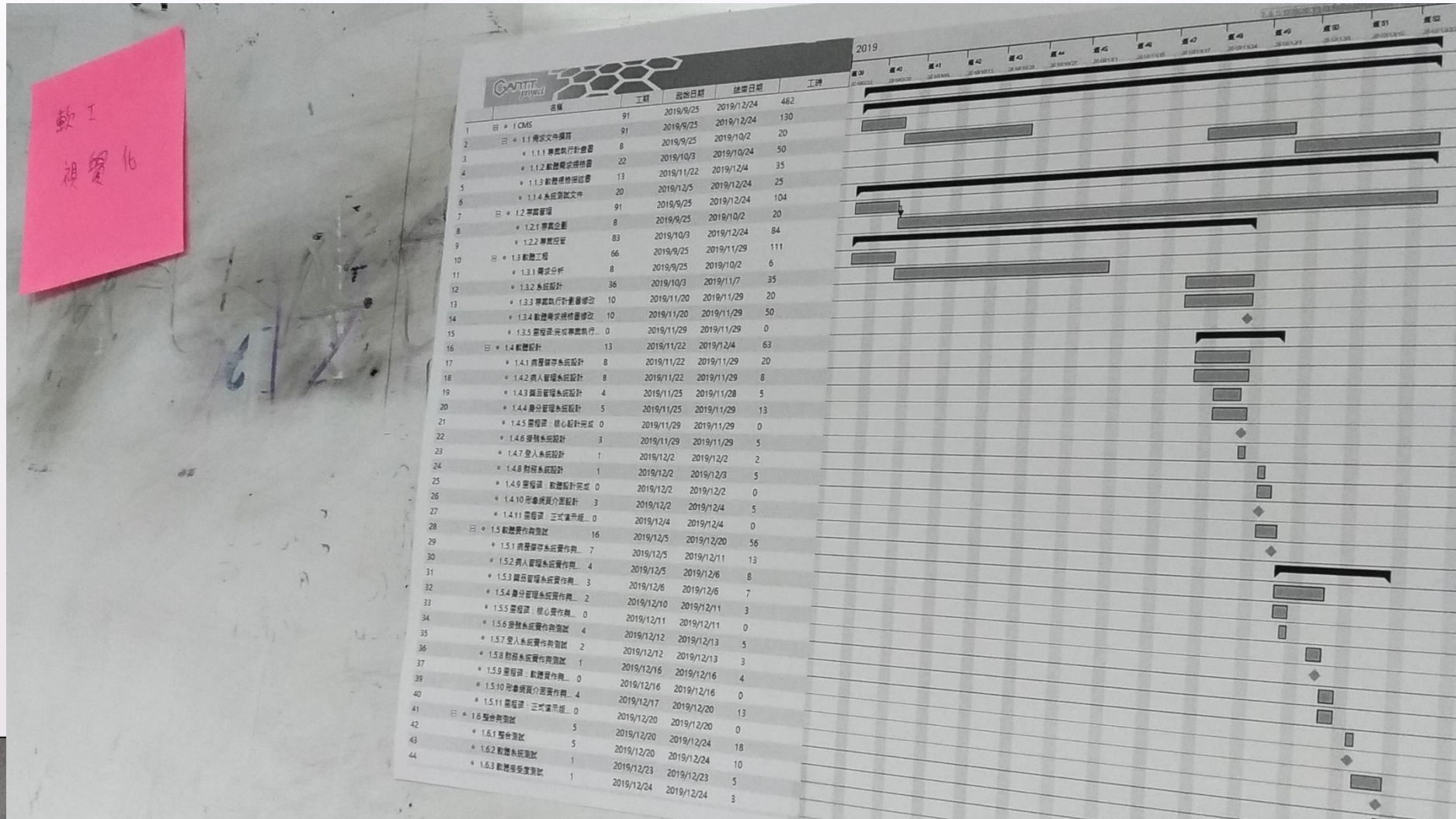
Informational Environment



Informational Environment (cont.)



Informational Environment (cont.)





Q & A