# **CISC 322/326**



Conceptual Architecture Presentation

Youtube Link: <a href="https://youtu.be/">https://youtu.be/</a> BYNVxOxVNQ

## **Group Roles**

Group Name: MAWLOK

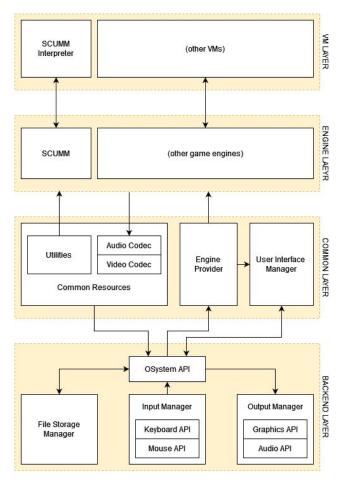
Team Lead:	Presenters:	Members:
Owen Meima	Michael Marchello Andrew Zhang	Lance Lei Kevin Panchalingam Zhuweinuo Zheng

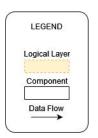
## Introduction

- Runs old games
- Open source

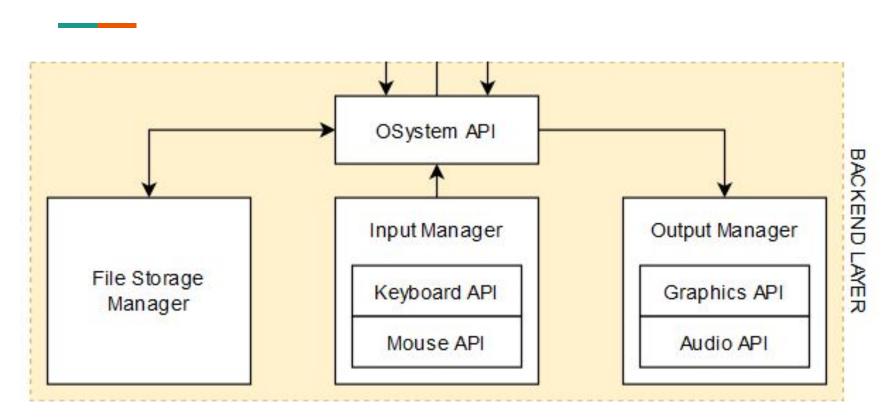


## Conceptual Architecture

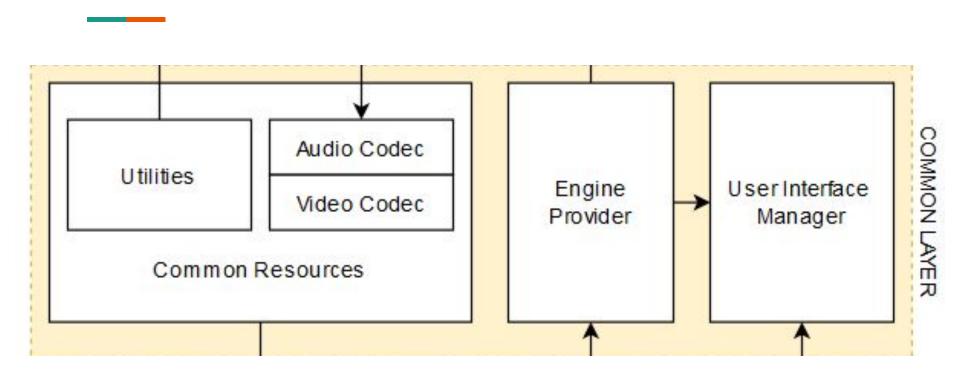


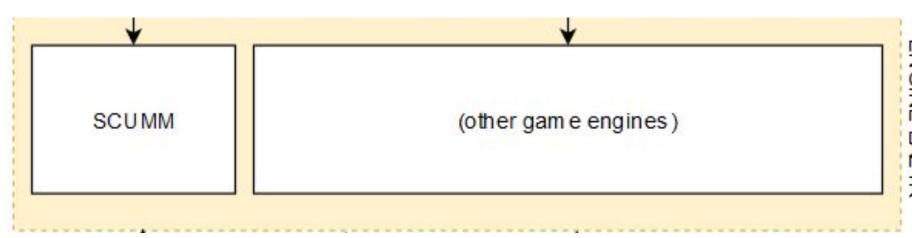


## Backend Layer

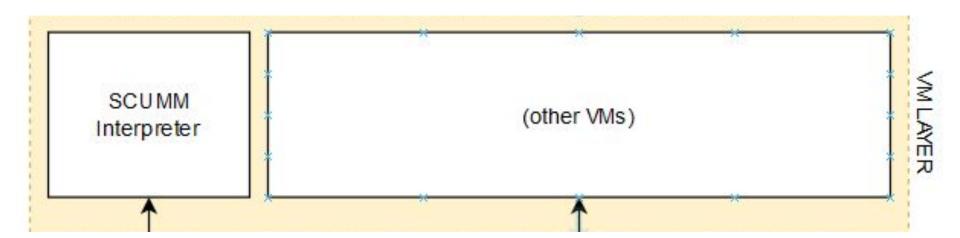


## Common Layer





## Virtual Machine Layer



## Non-Functional Requirements

**Usability** 

**Performance** 

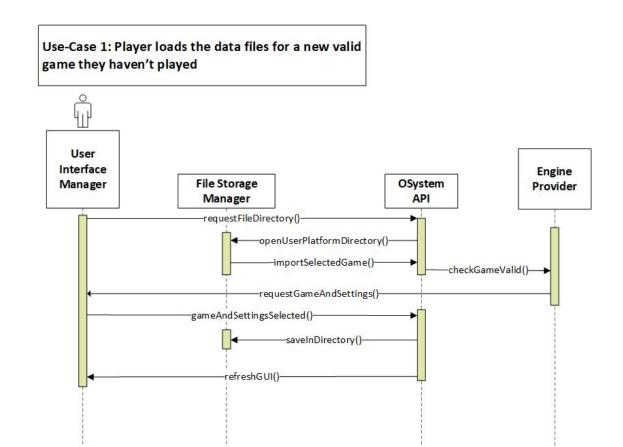
**Portability** 

Maintainability

**Scalability** 

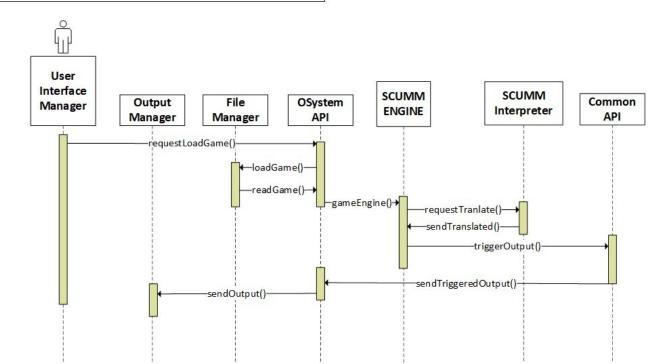
Reliability

#### Use Case I



#### Use Case II

Use-Case 2: Player loads a previously added SCUMM engine powered game



#### **Derivation Process and Lessons Learned**

#### Research

- Research wikis, QA forums, and official discord of ScummVM.
- Determined the architectural style, components, and roles each component would play.

#### **Brainstorming**

- Arranged the five main components.
- Determined how to trigger an event from the user interface.

## **Determining Architecture**

• Recognized where the components we identified in sequence diagrams fit in with the previously mentioned five main components used in ScummVM's code base.

## Limitations of Reported Findings

- Did not consider source code due to time constraints.
- Only focussed on Conceptual Architecture.



#### Conclusion

- Highlighted the main attributes and conceptual architecture of ScummVM, using a style that reflects component interactions, data flow, and resource usage.
- Organized system components into layers based on their common functionality and identified Non-Functional Requirements to describe software effectiveness.
- Developed two use cases and illustrated them with sequence diagrams, detailing system functionality.

