OS Project Proposal

Submitted to :

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Problem Statement:

“Using MIT’s xv6 add a set of features on top of the existing Operating System ”

Concepts to be learnt:

- X86 Architecture and Hardware
- Demand Paging from Disk
- Lazy Page Allocation
- Memory Mapping of files into private memory

Rough Schedule:

Week 1 - Introduction to MIT xv6
Week 2 - Revise x86 Architecture concepts
Week 3 - Read about how to use paging hardware
Week 4 - Implementation of the required ideas
Week 5 - Bug fixes and patches/ Documentation

Final Output:

xv6p implements the whole suite of features possible using x86 paging hardware to MIT's xv6 OS, including demand paging from disk, lazy page allocation, memory mapping of files into private memory and copy-on-write.

Team Members:

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