



Memory Management System and Website Status Checker

Presented To:

- Jarin Tasnim Tonvi
Lecturer
CSE at GUB

Presented by

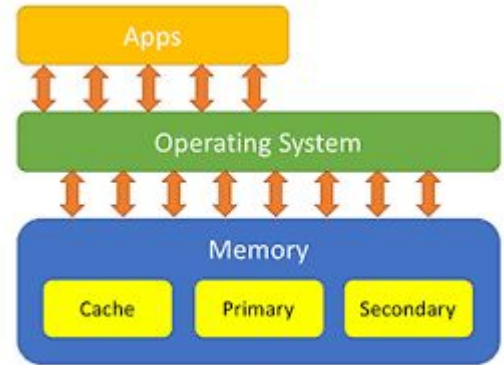
- Tarqul Alam Opi
201902074
- Md Romzan Alom
201902144

Presentation Outline

- ◉ Introduction
- ◉ Problem Statement
- ◉ Motivation
- ◉ Objectives
- ◉ Project Plan
- ◉ Future Activity
- ◉ Project Output
- ◉ Project Show

Introduction

- © Memory Allocation
- © Memory Deallocation
- © Memory Protection LRU
- © Website Availability
- © Website Response Time
- © Website HTTP Status Codes



Problem Statement

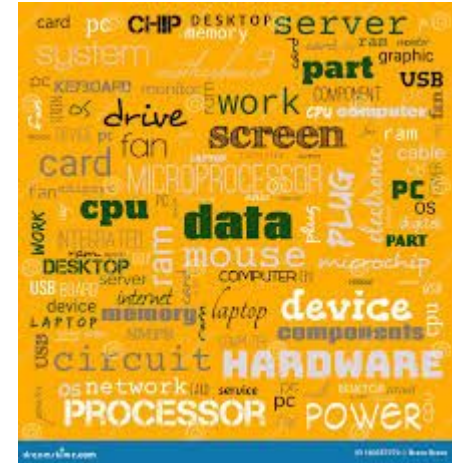
- © Inefficient Memory Allocation
- © Ineffective Memory Deallocation
- © Lack of Memory Protection
- © Lack of Real-Time Monitoring
- © Limited Performance Analysis
- © Scalability and Efficiency



A screenshot of a web form titled "CHECK WEBSITE STATUS". The form contains a "Website" label above a text input field with the placeholder text "DOMAIN.COM". Below the input field is a blue button labeled "CONTINUE". Below the "CONTINUE" button is a link that says "Own Multiple Domains?". At the bottom of the form is another blue button labeled "SHOP MULTIPLE LICENSES".

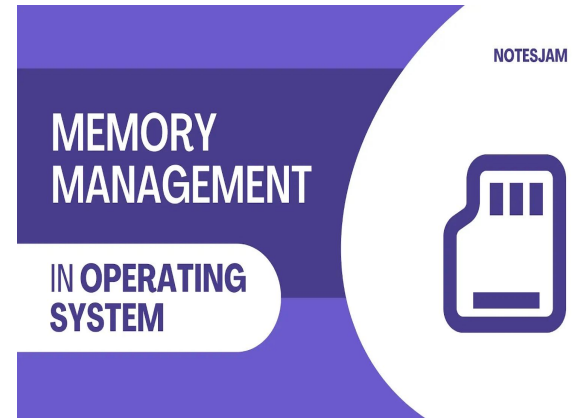
Motivation

- ◎ Optimal Resource Utilization
- ◎ Enhanced System Stability
- ◎ Security and Data Protection
- ◎ Monitoring Competitors
- ◎ Improved Website Availability
- ◎ Enhanced User Experience
- ◎ Performance Optimization

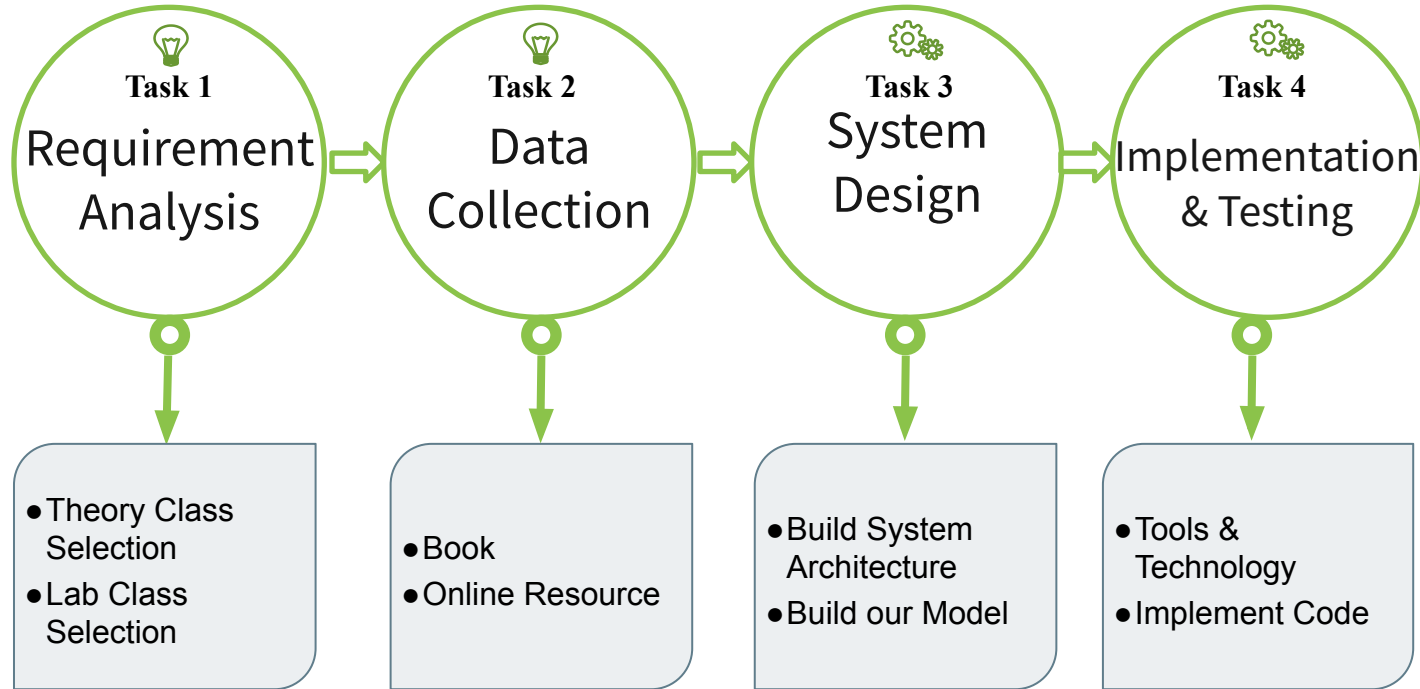


Objective

- ◎ Ensure memory protection and security
- ◎ Improve system performance
- ◎ Handle memory allocation
- ◎ Monitor website availability
- ◎ Identify performance bottlenecks
- ◎ Ensure scalability and reliability



Project Plan



Future Activity

- ◎ Memory Management System
 - Integrate with incident management systems
 - Incorporate synthetic monitoring
- ◎ Website Status Checker
 - Integrate with performance optimization tools
 - Support mobile and API monitoring

Project Output

```
https://www.google.com is up
romzan@ubuntu:~/Desktop$ ./Website_Status_Checker.sh
Welcome
To check website status:

Enter the website URLs separated by spaces: https://www.google.com
HTTP/2 200
content-type: text/html; charset=ISO-8859-1
content-security-policy-report-only: object-src 'none';base-uri 'self';script-src 'nonce-aq000_f2getnTr-3l0hLUw' 'strict-dynamic' 'report-sample' 'unsafe-eval' 'unsafe-inline' https: http:;report-uri https://csp.withgoogle.com/csp/gws/other-hp
p3p: CP="This is not a P3P policy! See g.co/p3phelp for more info."
date: Mon, 19 Jun 2023 16:30:50 GMT
server: gws
x-xss-protection: 0
x-frame-options: SAMEORIGIN
expires: Mon, 19 Jun 2023 16:30:50 GMT
cache-control: private
set-cookie: 1P_JAR=2023-06-19-16; expires=Wed, 19-Jul-2023 16:30:50 GMT; path=/; domain=.google.com; Secure
set-cookie: AEC=AUEFQZf4kSAzIFEnngv7-2LMk8fMfPszHLWEI8ipQZ8zqtXgeb9wQL4Kw; expires=Sat, 16-Dec-2023 16:30:50 GMT; path=/; domain=.google.com; Secure; HttpOnly; SameSite=lax
set-cookie: NID=511=fxP-mAIfk6Rcov-FTwv97Zb7VgYgxFfWkPa0u35gAAVVHB3vXkfur9niKWUNH3CibkadXR8-xvzPQJUVuSbedf4pHqnsaWogEiQbLCb9jyyRa6sYJ3ZNXnt9MusPhZ4l3zonaSmy8EAF0CR1I1PLInd_fJ65tCS8pVHGyTE; expires=Tue, 19-Dec-2023 16:30:50 GMT; path=/; domain=.google.com; HttpOnly
alt-svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000

https://www.google.com is up
romzan@ubuntu:~/Desktop$ ./Website_Status_Checker.sh
```

```
romzan@ubuntu:~/Desktop$ ./Memory_Management_System.sh
Welcome
To Management your file:

Enter the mamory size: 3
Getting data from file1.txt
Hello Hello, world! 1

Getting data from file2.txt
Hello, world! 2

Getting data from file1.txt again
Hello Hello, world! 1

Getting data from file3.txt
Hello, world! 3

Getting data from file2.txt again
Hello, world! 2

Getting data from file4.txt
Hello, world! 4

romzan@ubuntu:~/Desktop$
```

Project Show



Questions & Answers



THANK YOU!