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# PROGRESSPATH

A STUDENT PERFORMANCE TRACKING  
SYSTEM WITH OUTCOME-BASED  
EDUCATION STANDARDS

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# PROJECT IDEA

Develop ProgressPath, a web-based student performance tracking system that:

- Monitors and records student academic performance
- Aligns assessments and outcomes with Outcome-Based Education (OBE) standards

# OBJECTIVES OF PROGRESSPATH

## GENERAL OBJECTIVES

Develop ProgressPath, a web-based Outcome-Based Management System that empowers educators and students by providing a centralized platform to monitor, evaluate, and enhance academic performance in alignment with Outcome-Based Education (OBE) principles.

## SPECIFIC OBJECTIVES

Develop ProgressPath, a centralized web-based system that tracks student performance against OBE standards, manages academic records efficiently, and delivers progress insights with actionable feedback to support student success

Evaluate usability using user testing with the System Usability Scale (SUS) and Usability, Satisfaction, and Ease (USE).

# METHODOLOGY

**RESEARCH DESIGN**  
QUANTITATIVE

**RESPONDENTS**  
College Students from  
Cor Jesu College, Inc.

**DATA COLLECTION**  
Purposive Sampling  
Convenience Sampling

**DATA ANALYSIS**  
SUS Questionnaire  
USE Questionnaire

**ETHICAL  
CONSIDERATIONS**  
Anonymity  
Confidentiality  
Informed Consent

# CONCEPTUAL FRAMEWORK

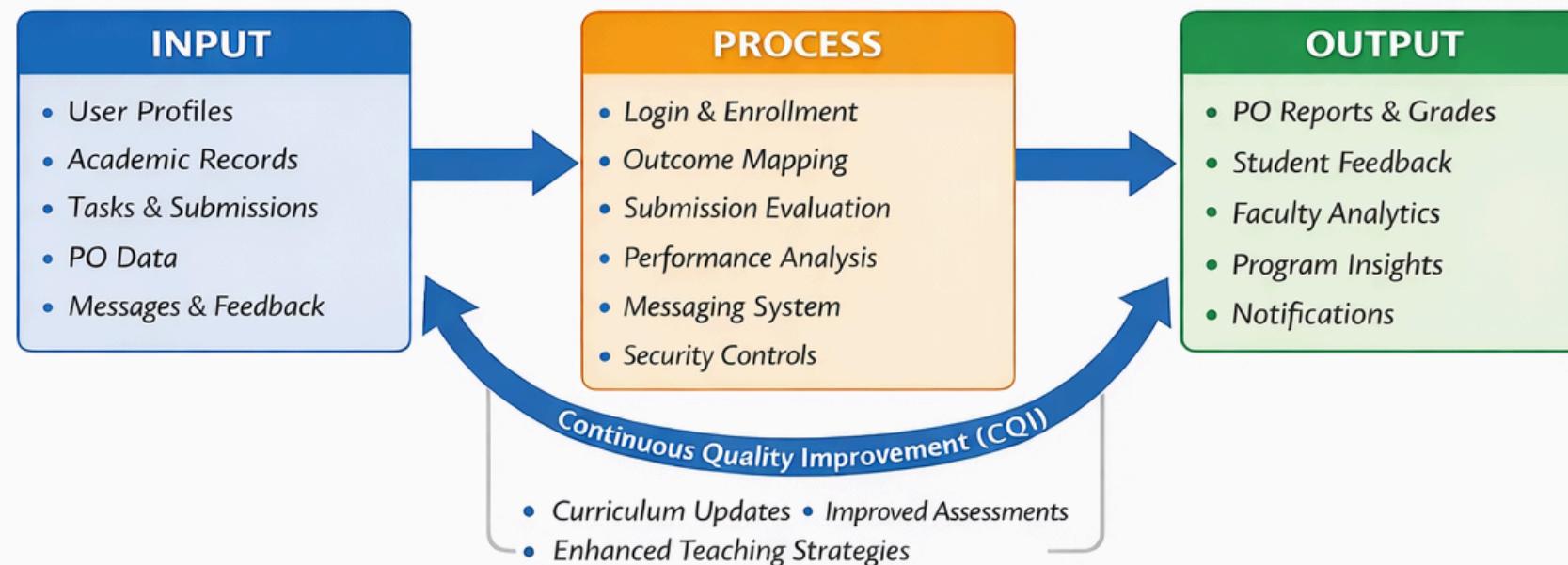
## Conceptual Framework for ProgressPath

Input – Process – Output Model

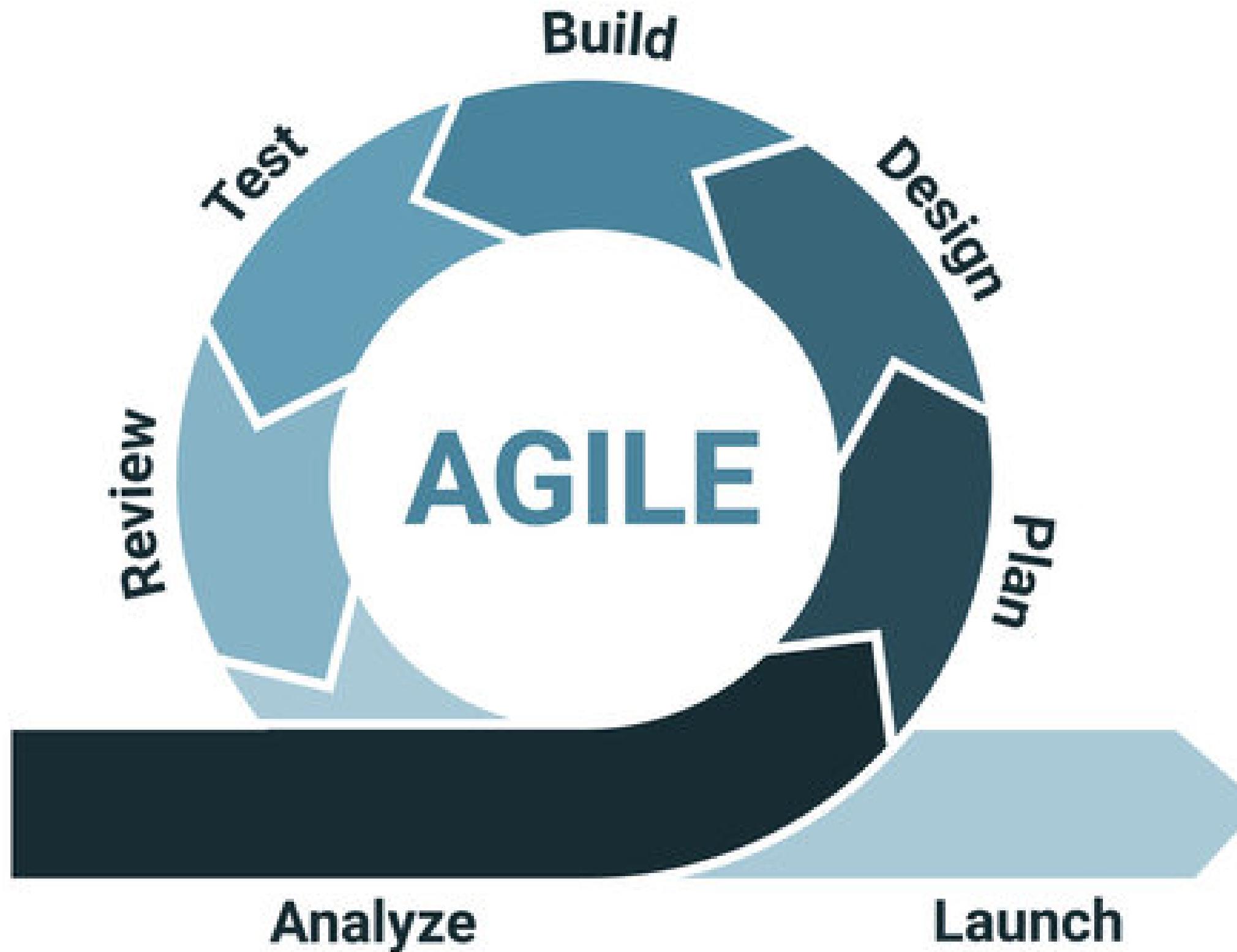


## Conceptual Framework for ProgressPath

IPO Model with Feedback Loop



# DEVELOPMENT PROCESS



## TECHNOLOGY STACK

### Frontend



HTML5



CSS3



JavaScript  
(jQuery)



Bootstrap



DataTables

### Backend



### Database



MySQL

### Tools



Laragon

# **SYSTEM DEMONSTRATION**

# **RESULTS AND DISCUSSIONS**

# USER TASKS

## FOR STUDENT

- Log in account
- View assigned task
- Submit a task
- Attempt to submit a task after the deadline
- View grades and feedbacks

## FOR ADMINISTRATOR

- Log in account
- Attempt to create a program without required information
- Create a new program
- Create a program outcome
- Assign IDE (Introductory, Demonstrative, Enabling)

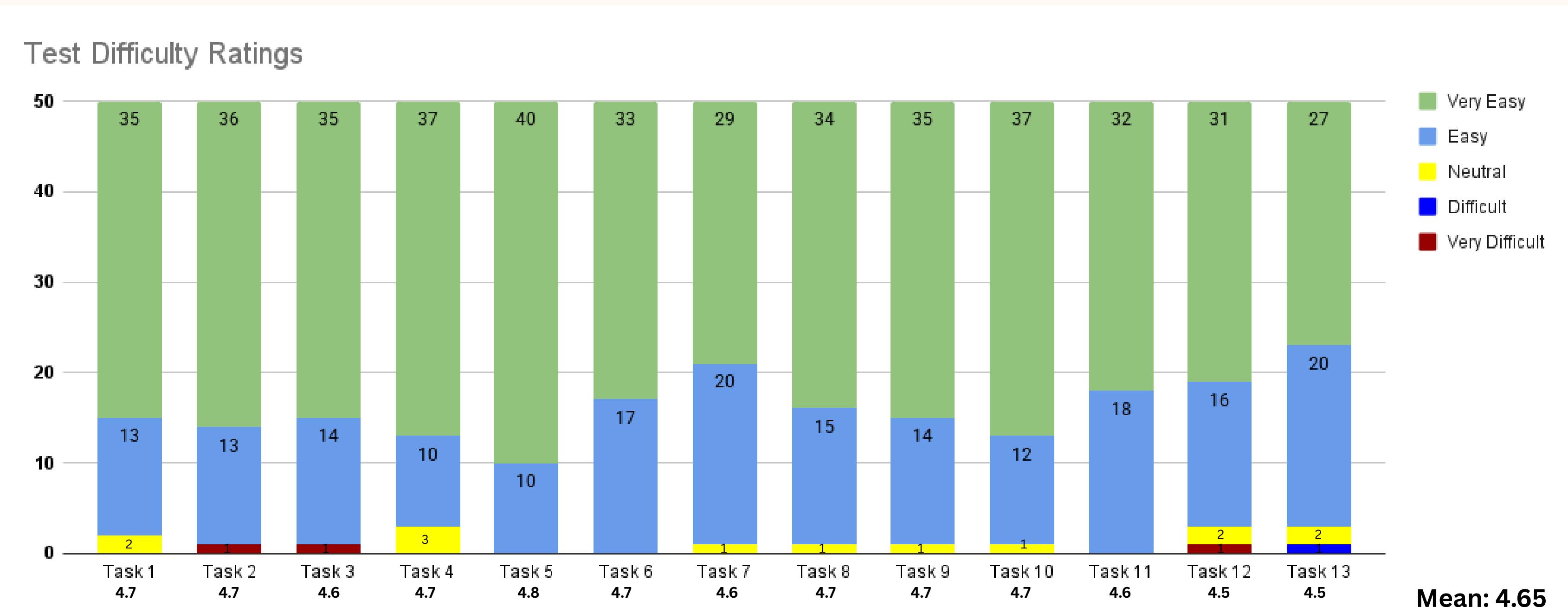
## FOR FACULTY MEMBERS

- Log in account
- Assign a task
- Grade submitted task and provide feedback

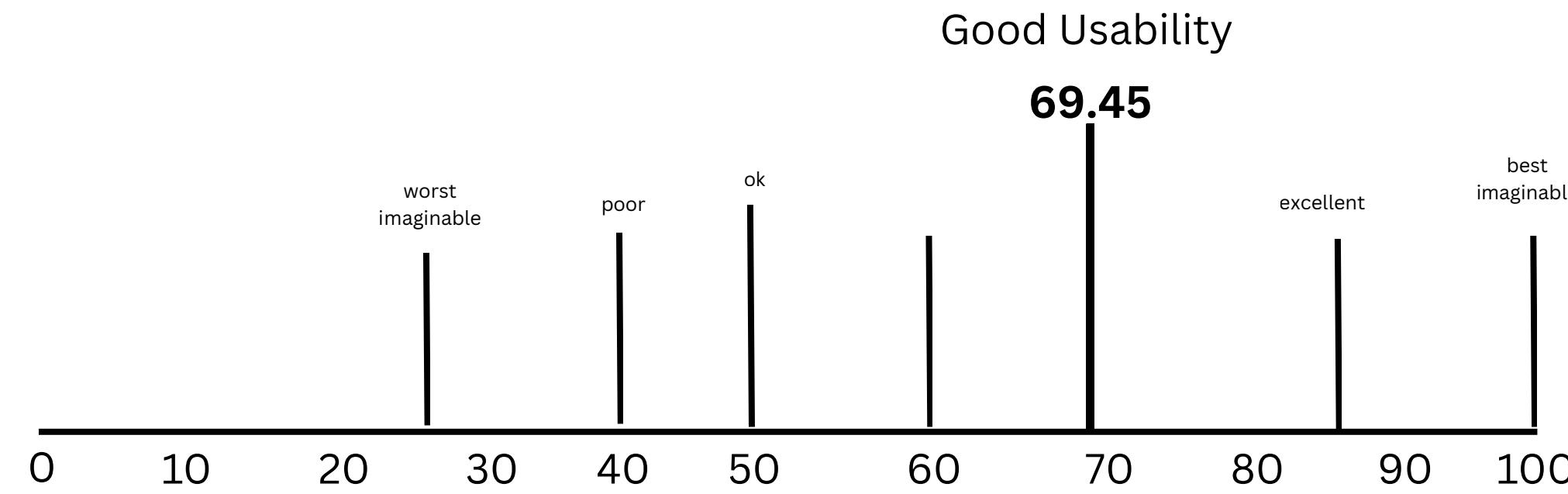
**100%**  
**COMPLETION RATE**

**50 OUT OF 50 PARTICIPANTS  
COMPLETED ALL THE TASKS**

# TEST DIFFICULTY RATINGS

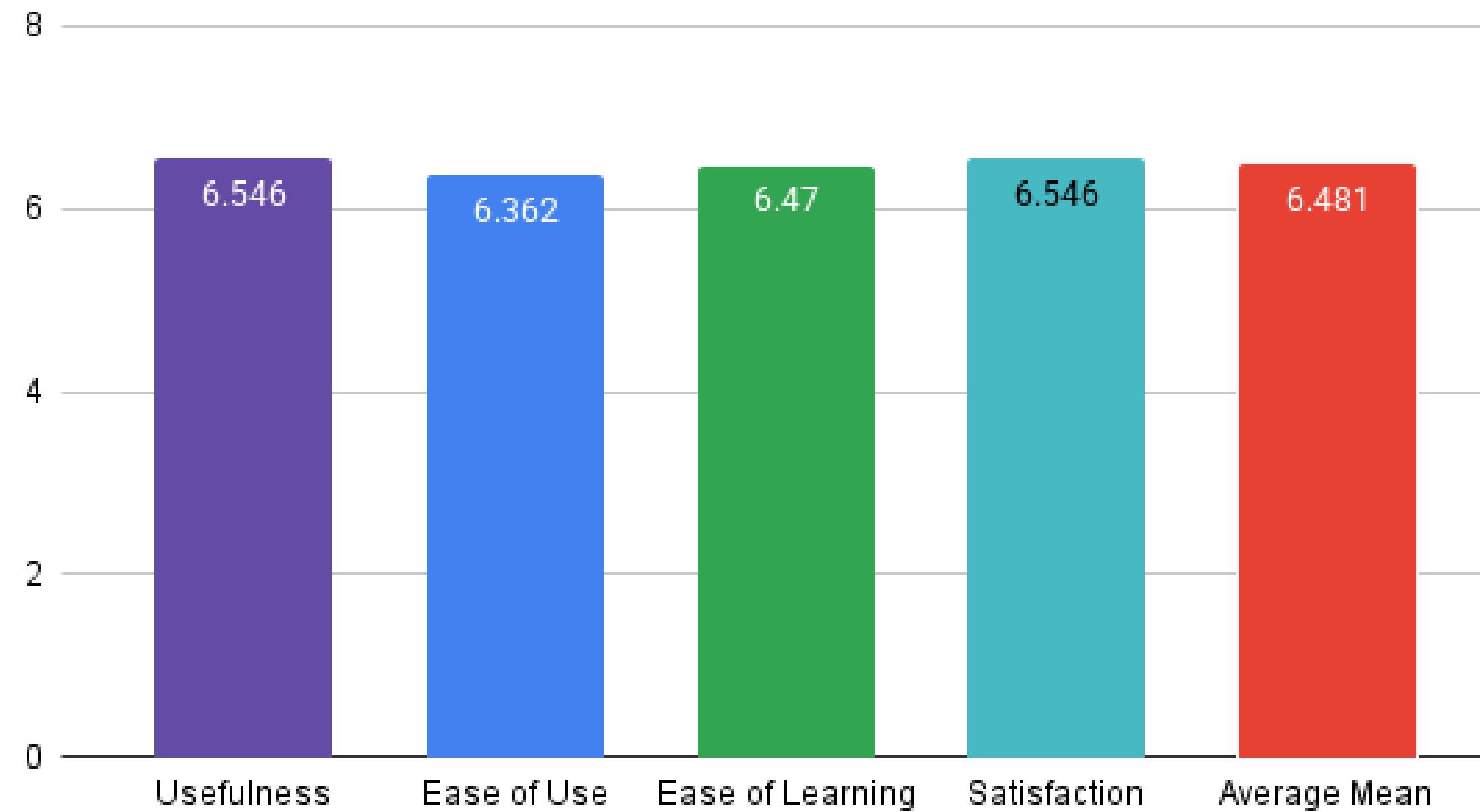


# SUS SCORE RESULTS



# USE QUESTIONNAIRE RESULTS

## User Testing Questionnaire (Responses)



# CONCLUSION

ProgressPath was successfully developed as an Outcome-Based Management System that provides a centralized and efficient web-based platform for monitoring, recording, and evaluating student performance in alignment with Outcome-Based Education (OBE) standards.

# RECOMMENDATIONS

## IMPROVE

Improve student progress analytics by adding clearer outcome-based dashboards, visual charts, and automated alerts for students who are falling behind expected learning outcomes.

## STRENGTHEN

Strengthen access control and data security by enhancing role-based permissions and implementing additional authentication measures for faculty members and administrators.

## AUTOMATE

Automate academic reporting and outcome evaluation to reduce manual encoding, minimize human error, and ensure consistent alignment with Outcome-Based Education standards.

PROGRESSPATH

# CAPSTONE DEFENDED