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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

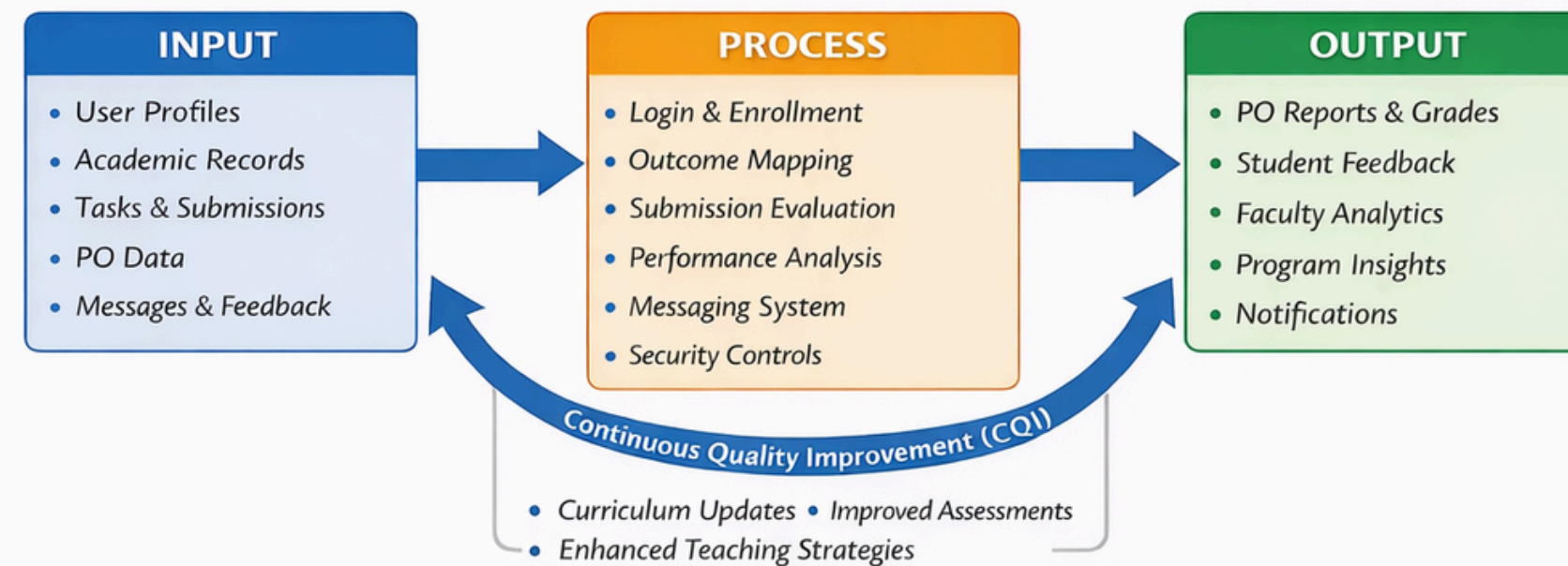
Conceptual Framework for ProgressPath

Input – Process – Output Model

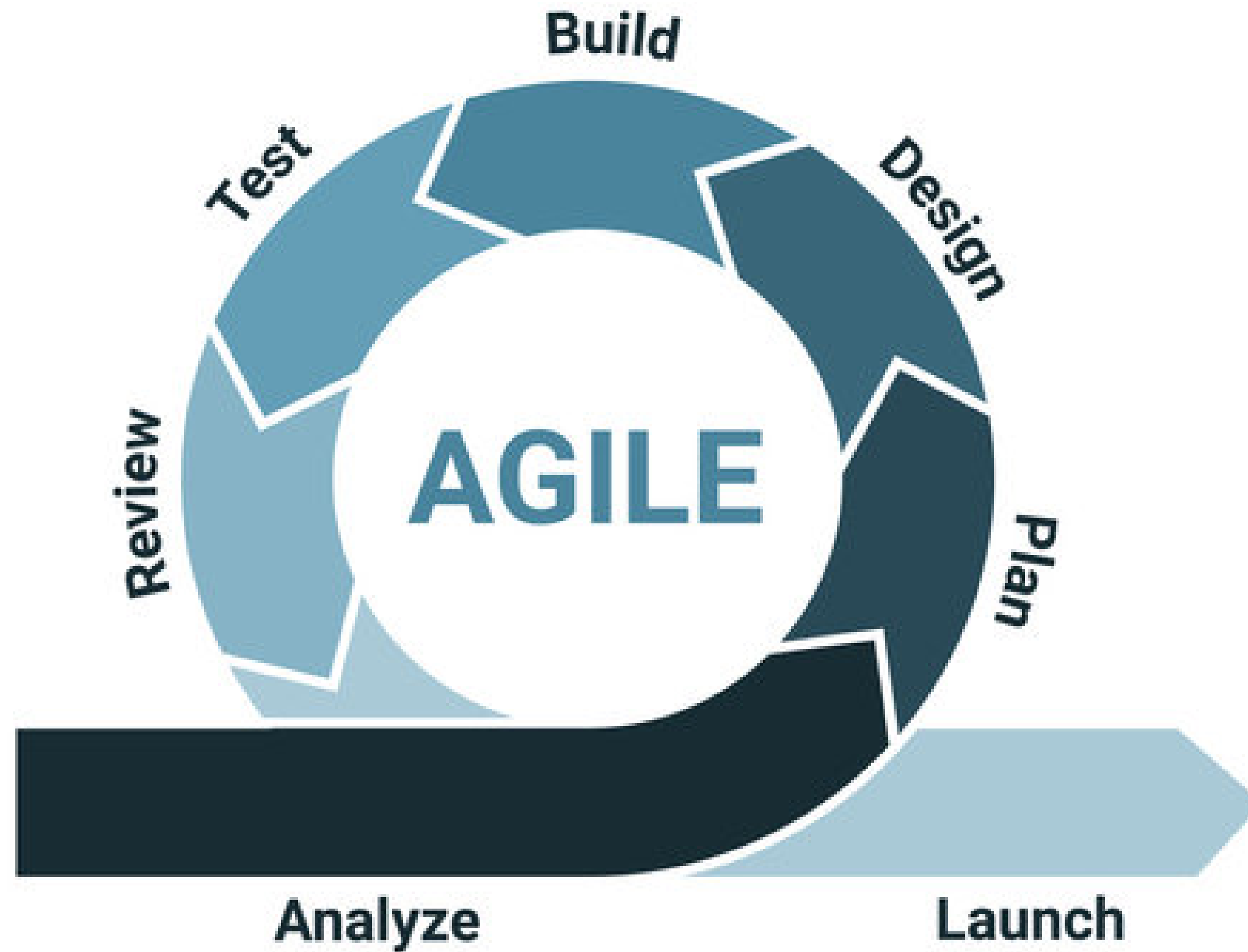


Conceptual Framework for ProgressPath

IPO Model with Feedback Loop



DEVELOPMENT PROCESS



TECHNOLOGY STACK

Frontend



HTML5



CSS3



JavaScript
(jQuery)



Bootstrap



DataTables

Backend



Database



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

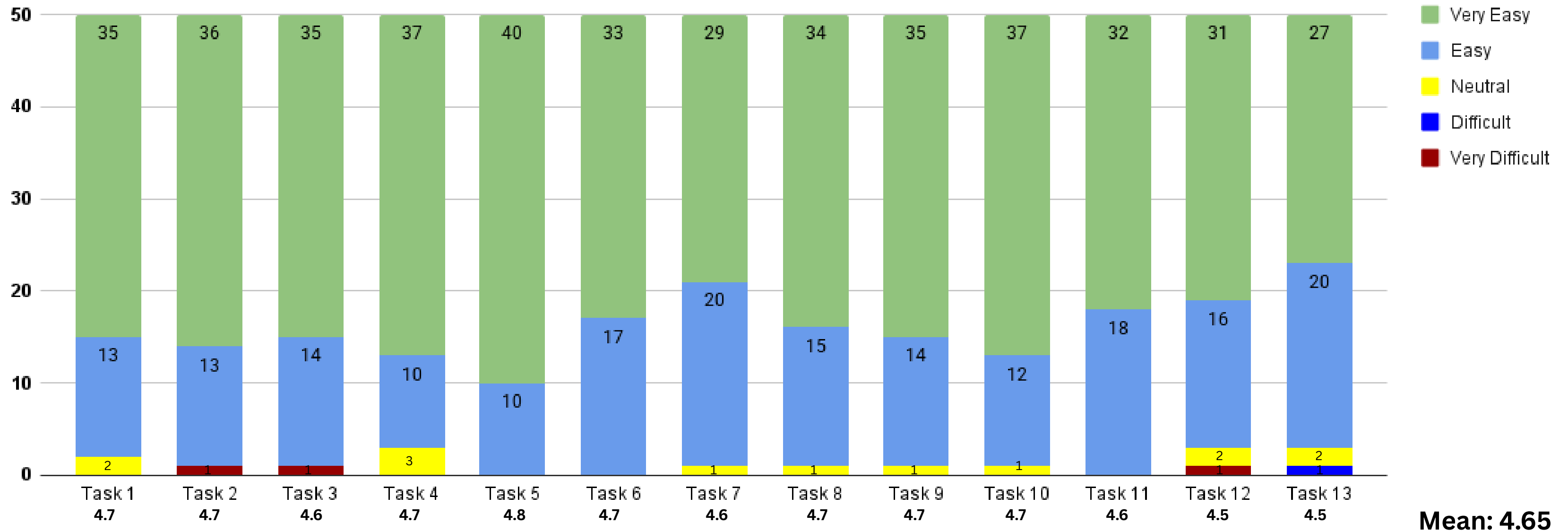
- Log in account
- Assign a task
- Grade submitted task and provide feedback

100%
COMPLETION RATE

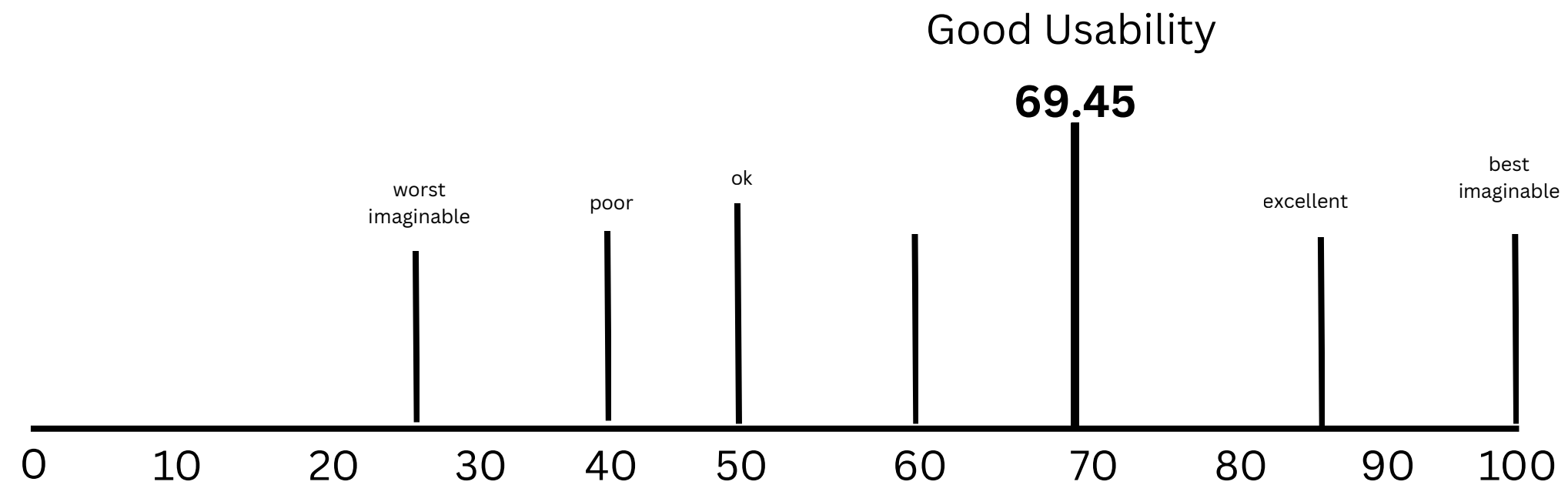
**50 OUT OF 50 PARTICIPANTS
COMPLETED ALL THE TASKS**

TEST DIFFICULTY RATINGS

Test Difficulty Ratings

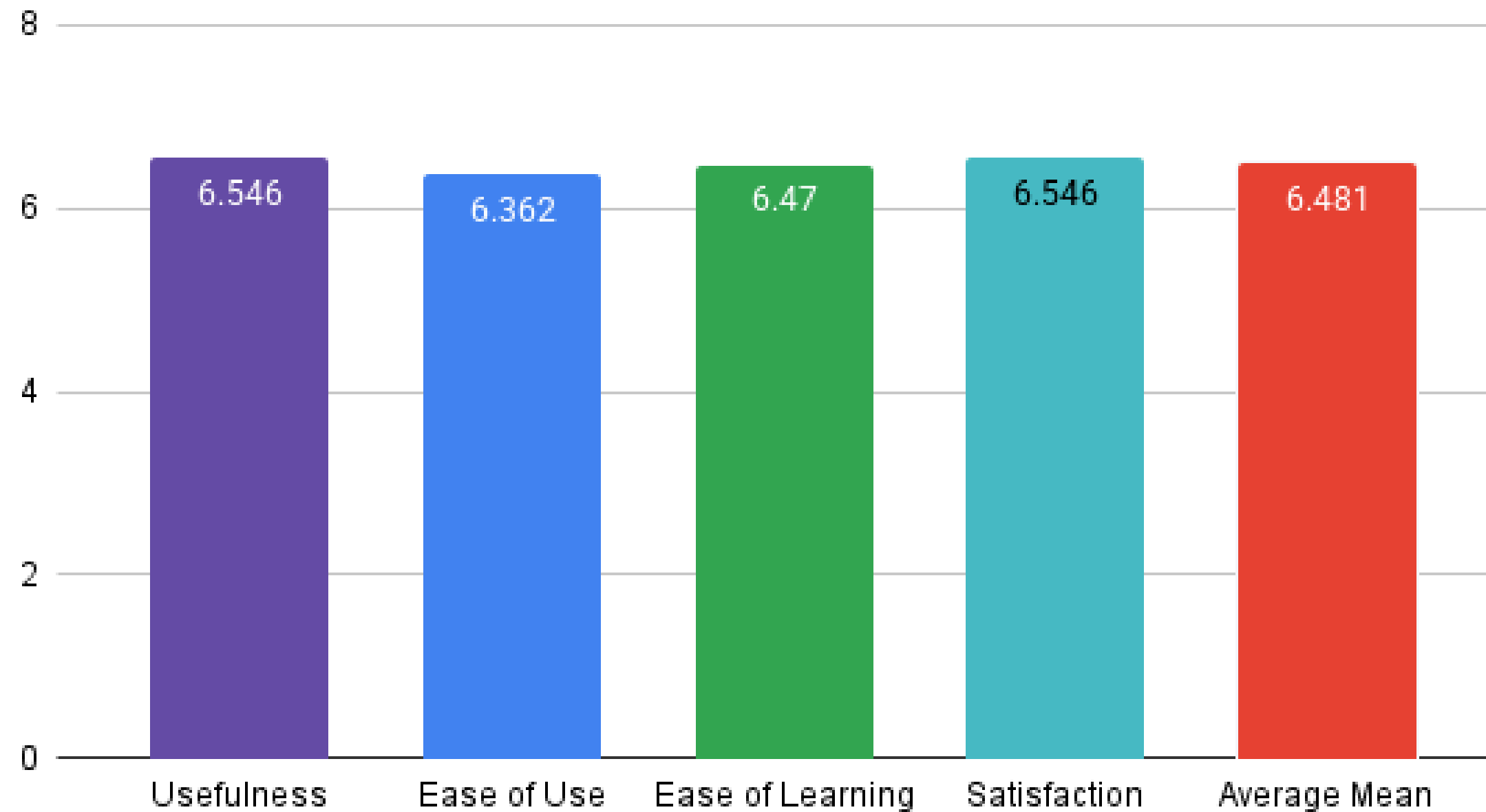


SUS SCORE RESULTS



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.

CAPSTONE DEFENDED