

Design Document

Academic Behaviour Recommendation system

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1 Introduction

This document explores the interface for the system.

2 Use Case for Student Performance Analysis

2.1 Main Success scenario (Student)

1. User opens the program
2. User Chooses student
3. User logs on
4. Use chooses course name
5. user clicks on get suggestions
6. Report is displayed

2.2 Main success scenario (Teacher)

1. user opens the program
2. user chooses teacher
3. user logs on
4. user manually enters data from syllabus
5. user uploads log and grade file
6. Report is displayed

3 System Sequence Diagram

Figure 1: Student SSD

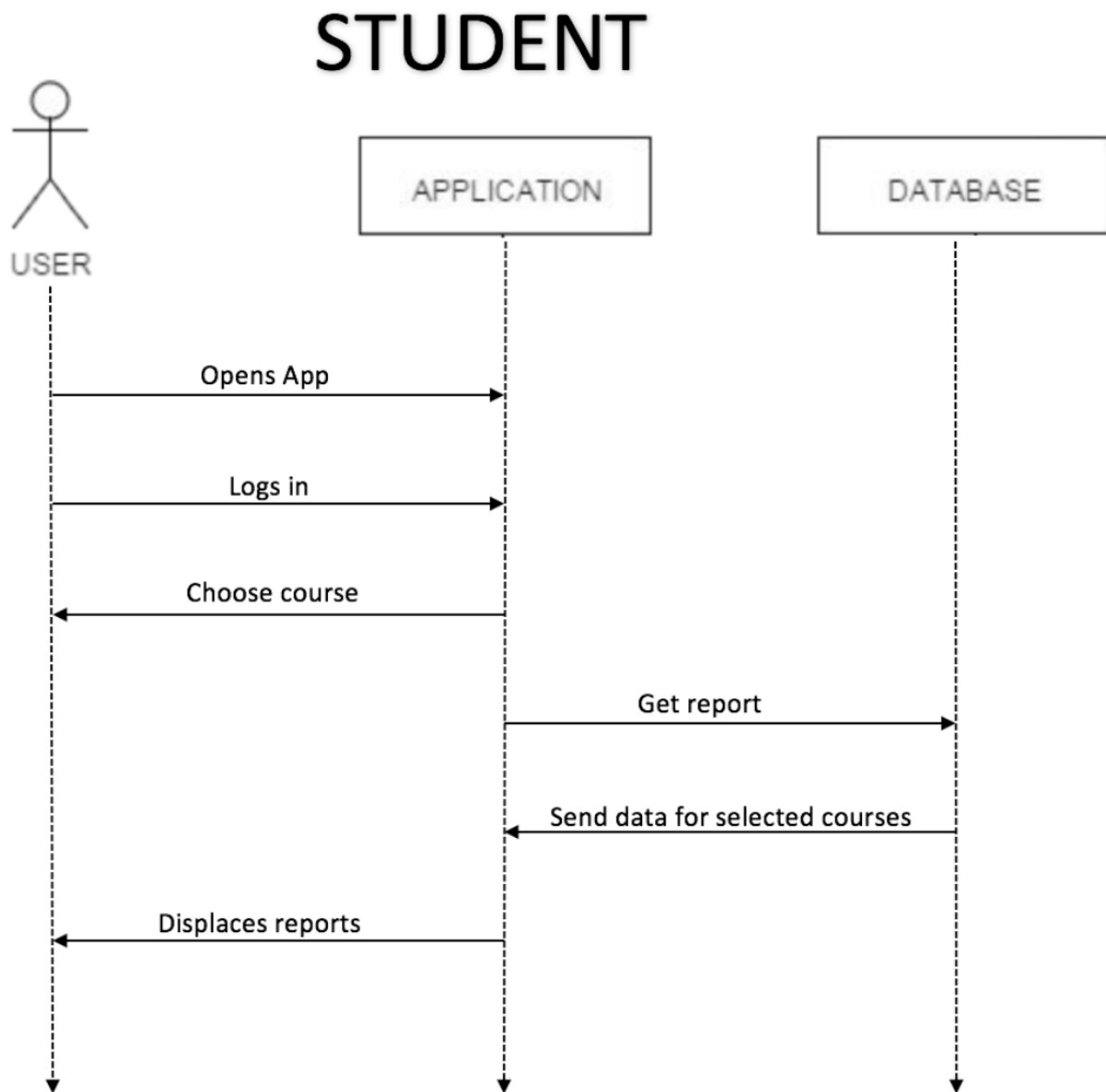
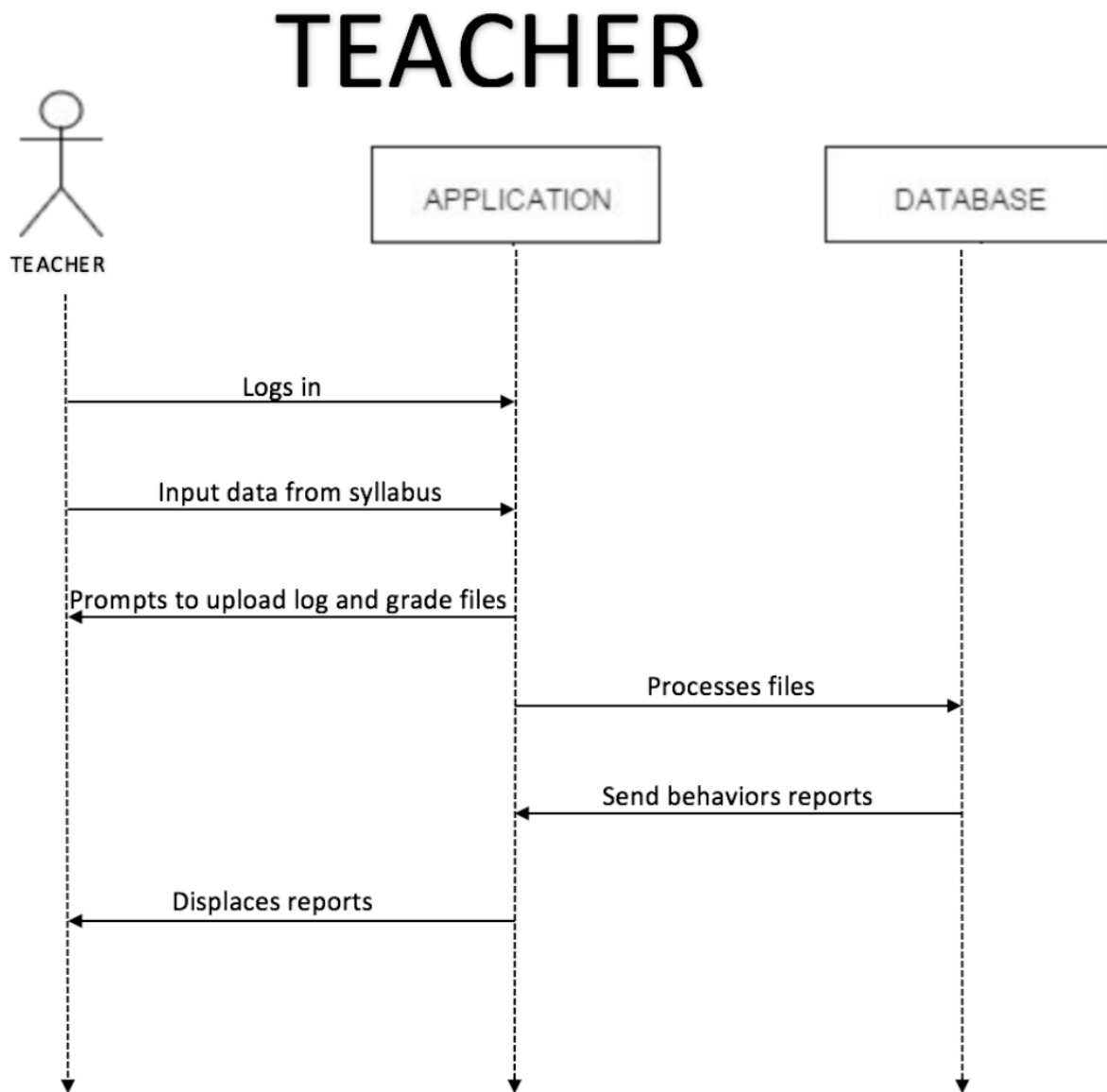


Figure 2: Teacher SSD



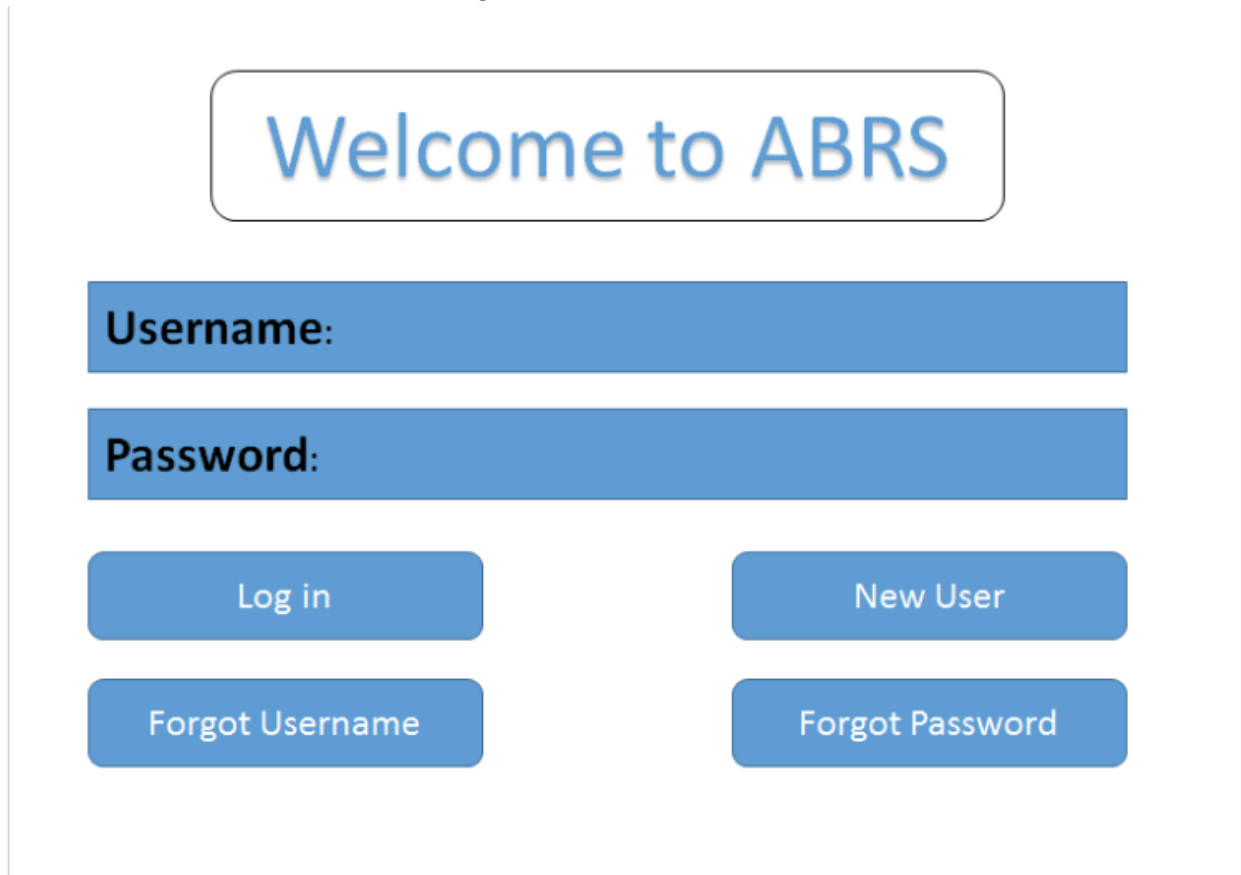
4 UML diagrams

ExtractBehaviors
...
+ prepareLogFile(File) : void + getBehaviors(File) : Behaviors + toString() : String ...
CorrelateData
...
+ prepareBehaviors(File) : void + getBehaviors(File) : Behaviors + prepareGradeFile(File) : void + getPerformance(File) : Behaviors + toString() : String ...

ExtractPerformance
...
+ prepareGradeFile(File) : void + getPerformance(File) : Behaviors + toString() : String ...

5 Interface Mock ups

Figure 3: Welcome screen



The mockup shows a login interface. At the top, a white rounded rectangle with a thin grey border contains the text "Welcome to ABRS" in a blue, sans-serif font. Below this, there are two blue rectangular input fields. The first field is labeled "Username:" in white text on the left. The second field is labeled "Password:" in white text on the left. Below the input fields, there are four blue rounded rectangular buttons arranged in a 2x2 grid. The top-left button is labeled "Log in", the top-right button is labeled "New User", the bottom-left button is labeled "Forgot Username", and the bottom-right button is labeled "Forgot Password". All buttons have white text.

Welcome to ABRS

Username:

Password:

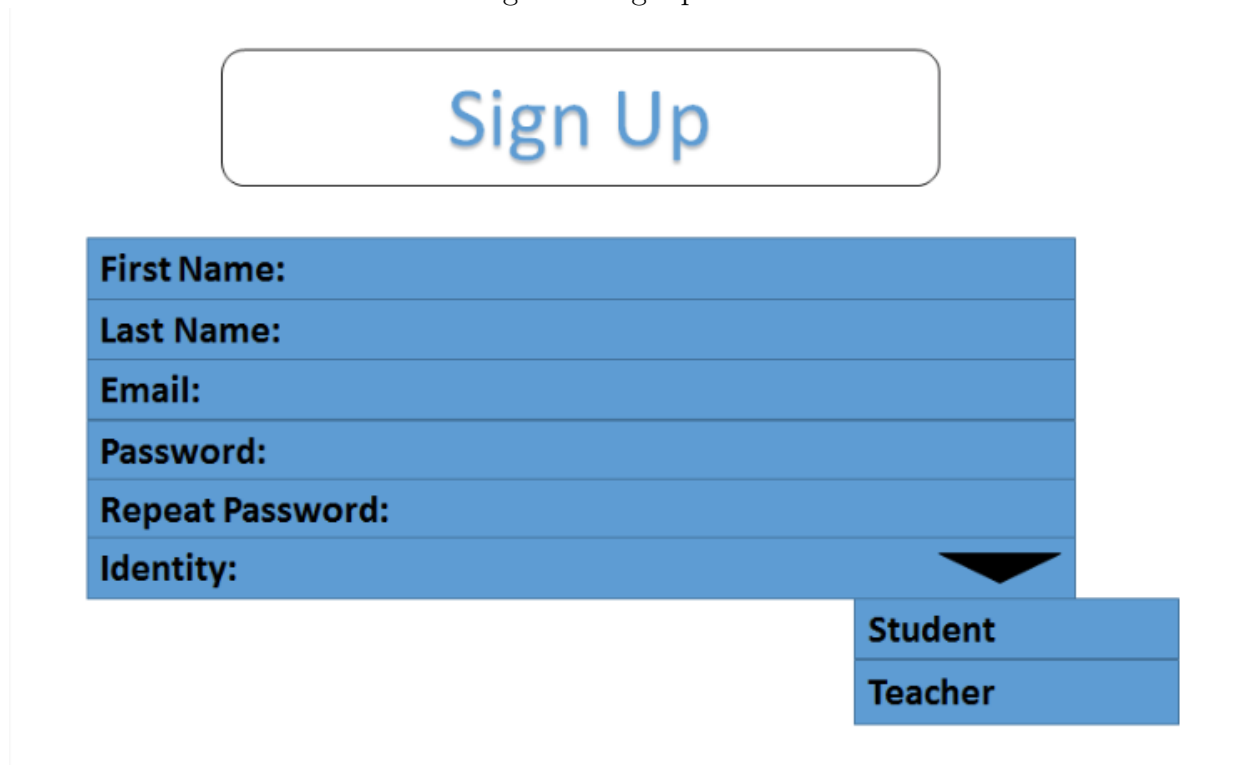
Log in

New User

Forgot Username

Forgot Password

Figure 4: signup screen



The signup screen features a central 'Sign Up' button. Below it is a form with six input fields: 'First Name:', 'Last Name:', 'Email:', 'Password:', 'Repeat Password:', and 'Identity:'. The 'Identity:' field has a dropdown menu with 'Student' and 'Teacher' options.

Sign Up

First Name:

Last Name:

Email:

Password:

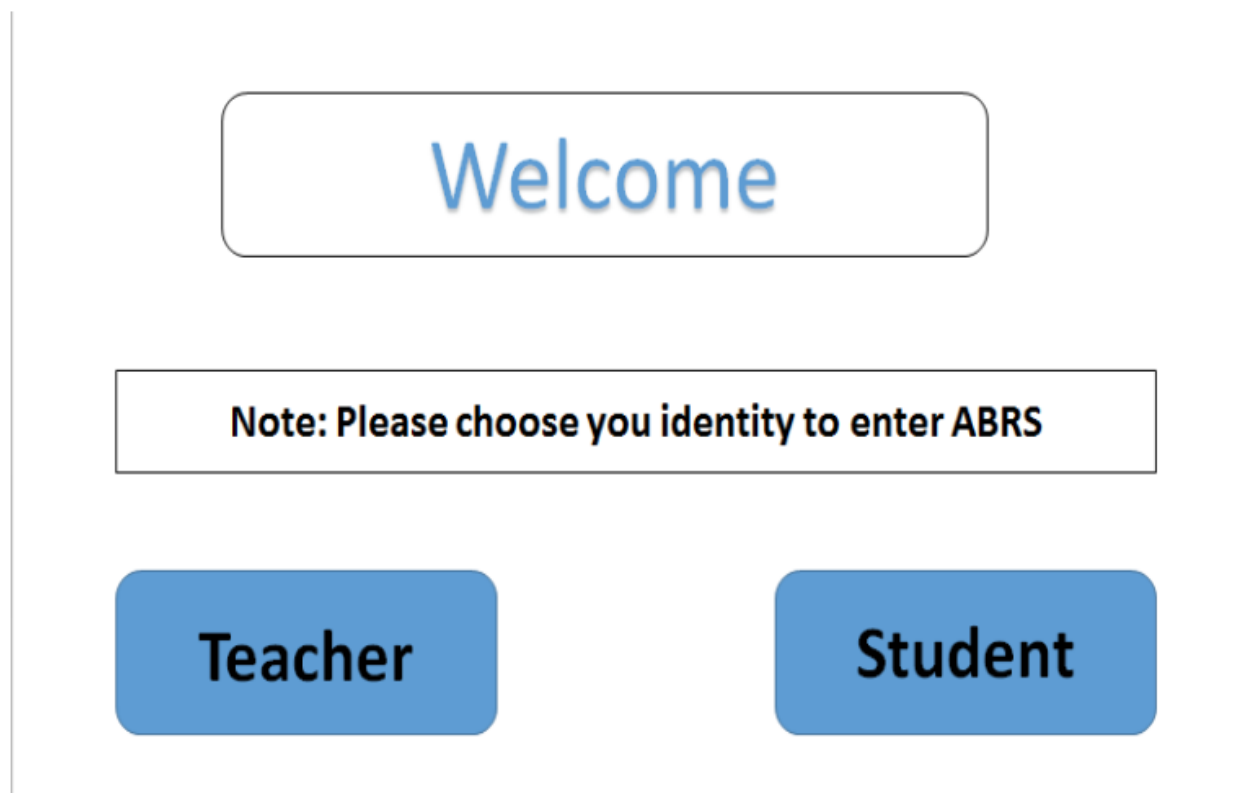
Repeat Password:

Identity:

Student

Teacher

Figure 5: Choose interface screen



The choose interface screen displays a 'Welcome' button, a note box stating 'Note: Please choose you identity to enter ABRS', and two large buttons labeled 'Teacher' and 'Student'.

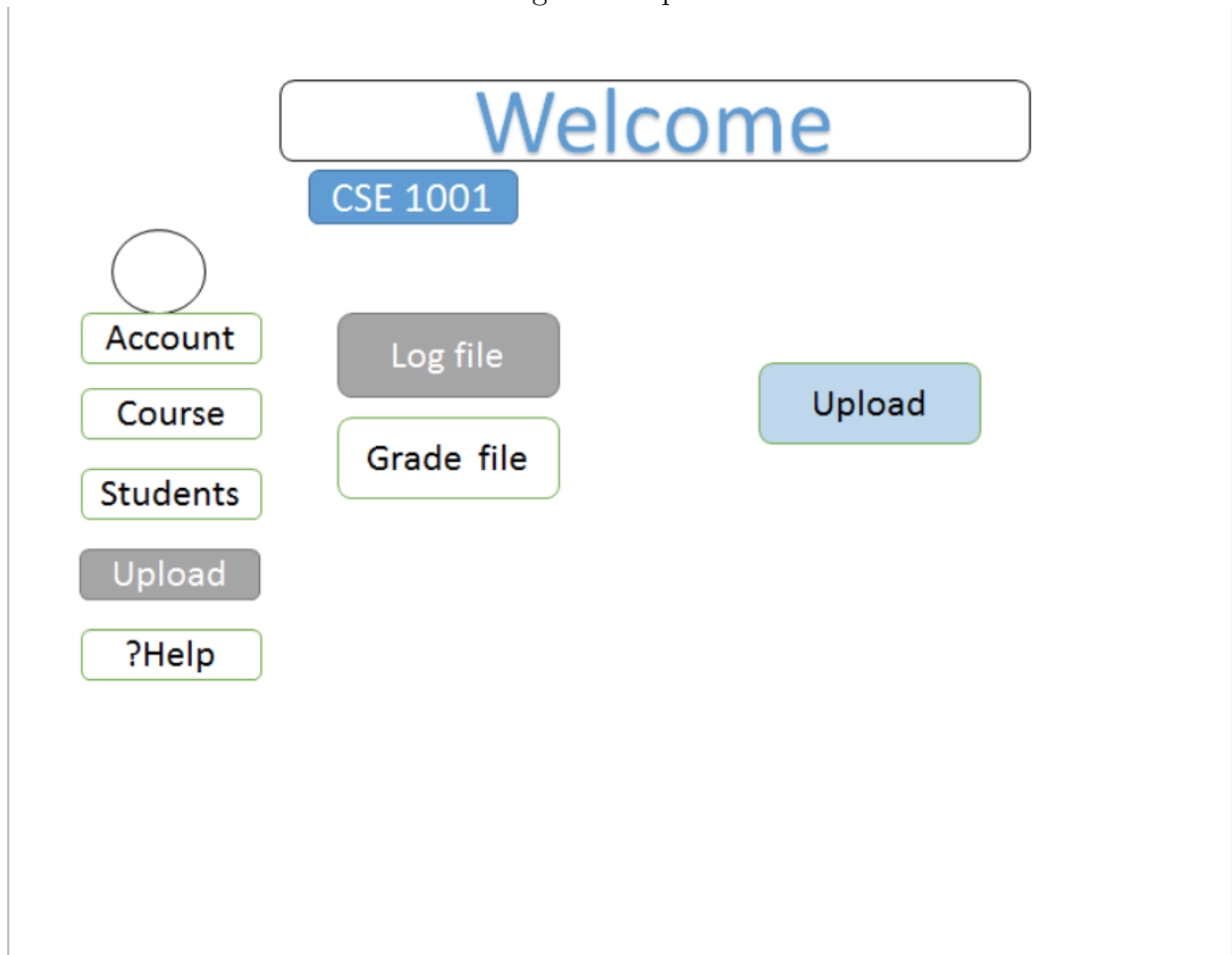
Welcome

Note: Please choose you identity to enter ABRS

Teacher

Student

Figure 6: Upload



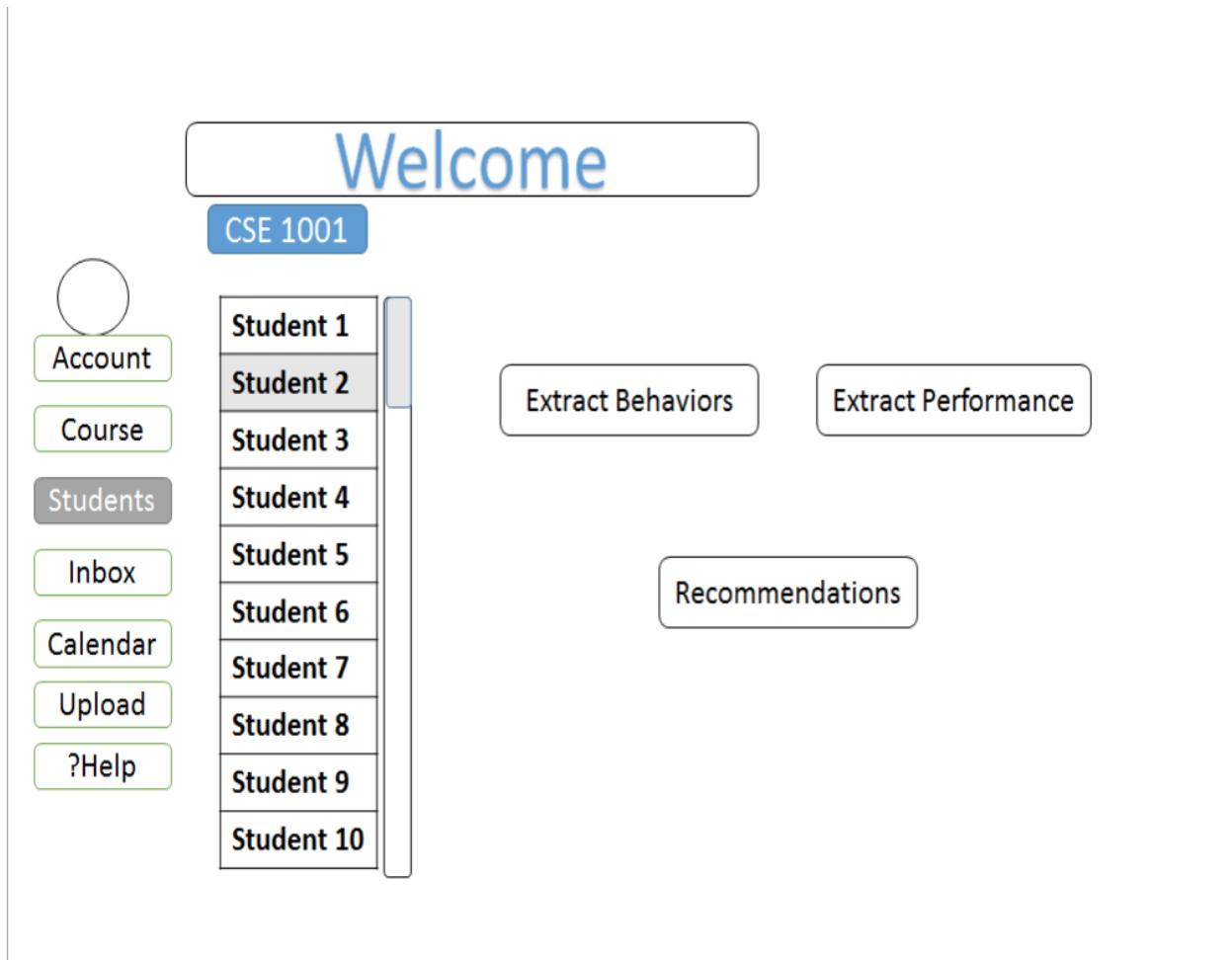


Figure 7: Report

