Lab 1 – KnowTime Description

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CS 411W

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04 September, 2024

Version 1

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1 Introduction

    Time management is something students worldwide regularly struggle with when handling their academic workload. Students often feel overwhelmed as they try to balance out their classes with work or other extracurricular activities they may be engaged in. This can lead to burning out, decreased motivation, and sometimes depression. This is reflected in the statistics where 82% of people struggle with time management and only 20% believe they have a good handle on their workload (Ariella 2022). This can cause other issues such as sleep deprivation due to procrastination, which is correlated with poor academic performance.

    The web application, KnowTime, is designed to address these issues by offering students practical tools that can help them form better time management and study habits. The features of KnowTime aim to promote productivity and reduce feelings of being overwhelmed by your workload. One of the primary features of KnowTime is a Pomodoro timer with customizable study sessions which will help students with breaking up their study time into manageable intervals. KnowTime also includes a study plan to keep students on track to reach their goals, a grade tracker to monitor their academic performance, and a task tracker to know which tasks they have completed and to keep track of long-term projects. The web app also includes some gamification with the inclusion of a points system that rewards students for completing tasks and maintaining good habits. A community forum is also included to offer students a space to support each other and connect. The last feature of note is a calendar with reminders which will help students stay on schedule with their tasks.

    By making use of KnowTime's features, students can develop better time management skills, improve their academic performance, and have more control over their workload.

2 KnowTime Product Description

2.1 Key Product Features and Capabilities
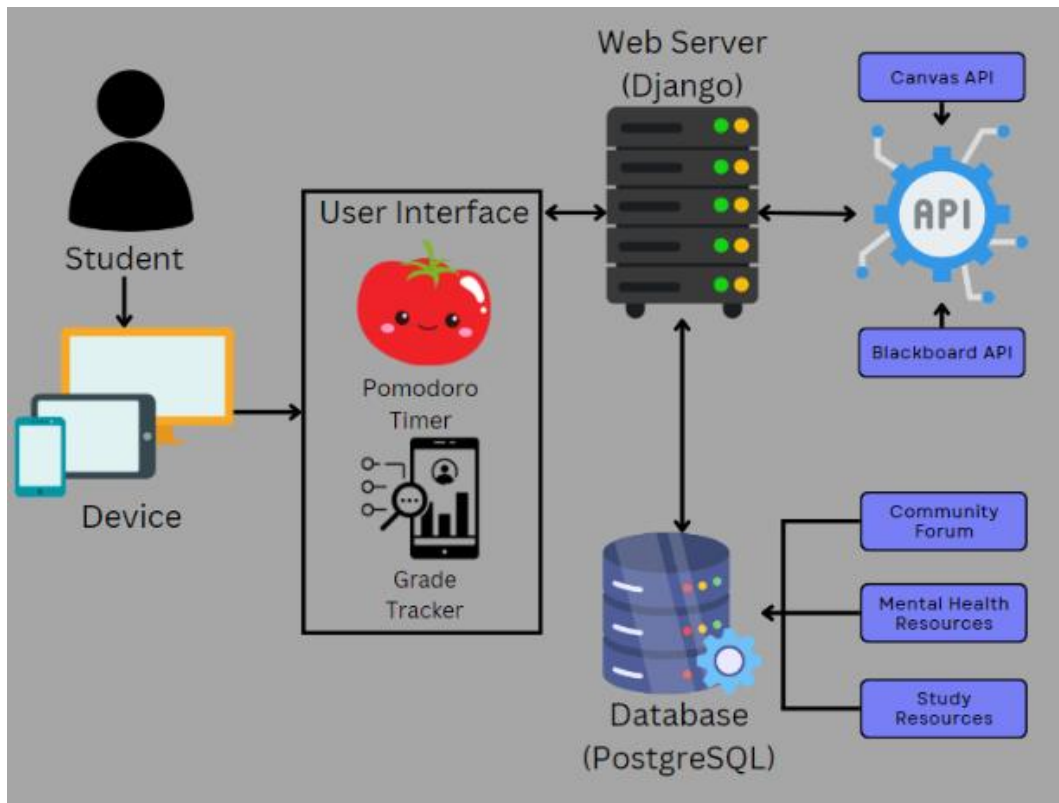
2.2 Major Components (Hardware/Software)

Figure 1: KnowTme MFCD

3 Identification of Case Study

3.1 Who This is For

3.2 Purpose

3.3 Who Else Benefits

4 Glossary

Grade Tracker: Grade tracking will be based on user-inputted grades. It will look at their grades, and the time spent studying, which may be entered by the student or automatically generated if the task was completed during a study session within the website.
It will then generate a graph correlating time spent studying with the grade they received. They will also be able to filter this graph by tags. This will allow students to view a particular class to determine how they can improve. The student will set a goal for the grade and view how they are progressing over time.

 Pomodoro Timer: The Pomodoro timer technique was created by Francesco Cirillo in the 1980s while he was a university student. To follow this technique, the student sets a timer for 25 minutes to complete a task. Once the timer goes off, the student takes a 5-minute break and then continues to work again for another 25 mins. After four sessions, the student takes a 15–30-minute break (Scroggs 2022).

 Study Plan: A study plan will be generated based on various factors that will be entered by the student. Examples of information entered that will be considered are assignment due dates, exam dates, and times that the student has specified they are busy. Study plans also consider time spent on similarly tagged tasks and the need for breaks between tasks.

 Task: A Task is any assignment that the student needs to complete, whether that be a homework assignment, an exam, or just making time to study or gather materials. Tasks can have multiple tags and are created by the student in the web application.

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