Lab 1 – Productive Places Product Description

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1 Introduction

Students and remote workers often struggle to find productive environments outside their homes. This is due to several factors, including distractions, family interruptions, not enough space, and family interruptions. Additionally, there's a lack of helpful resources, such as centralized platforms for finding suitable workspaces, real-time occupancy information, and details on amenities. The process of finding the right place can be frustrating as well as time consuming, which could lead to reduced productivity. These issues can make people believe they are not able to work outside of their home, and this would impact their motivation and efficiency.

To solve this problem, our group presents "Productive Places", a web application designed to help students and remote workers easily discover ideal locations to study or work. The platform eliminates the hassle of dealing with home limitations, space restrictions, and lack of information by offering many easy to use features, such as location based search, advanced filtering for amenities, community reviews, real time availability updates, and very detailed workspace profiles.

With "Productive Places", users can quickly find spaces that meet their needs, whether it's a quiet coffee shop, a library, a coworking space with plenty of seating, or a facility with Wi-Fi. The goal of this website is to streamline the search process and create a community driven solution that empowers productivity outside the home. With access to accurate information and the users input, we aim to make finding the perfect workspace simple and stress free. No matter whether you are a student or working facing deadlines, "Productive Places" is the solution.

2 Productive Places Product Description

Our solution to the problem of finding suitable environments for being productive outside of the house is a tool for filtering user-reviewed establishments. The goal of our software is to provide a method for finding efficient studying locations that fit the specific needs of each student, including operating hours, WiFi availability, and charging outlets.The primary objective of our target users is to find optimal locations nearby that are open, fill their needs, and have been reviewed by others to be acceptable places to study.

2.1 Key Product Features and Capabilities

Users can search for optimal locations suited for being productive, use filters to customize their searches based on their specific needs, and use filters to find locations that remain open during hours that fit their schedule.The proposed web application will have a selection dedicated to user-generated reviews to help potential visitors.

2.2 Major Components (Hardware/Software)

Linux will be used as the Operating System to manage git commands and set file permissions.Apache will be used as the webserver, where students, Workers, and Business Owners can access the web application, and Nodejs will be a supplement to the web server. PostgreSQL will be the database that is used, and the backend web server will communicate with the database.

3 Identification of Case Study

This product is being developed for students who struggle to concentrate on studying and completing schoolwork at home for various reasons. Many students cannot find a quiet place to study, and people needing a quiet place to work, eat, or communicate may also use this application.

4 Glossary

- API (Application Programming Interface): A set of rules that allows two software applications to communicate with each other and exchange data.
- Body doubling effect: When a person is more motivated to be productive in the presence of others, rather than alone at home.
- Git: Version Control

- Integrated Development Environment(IDE): Software application that provides facilities for software development.
- User Interface (UI): Visual elements of a software product.
- User Experience (UX): Overall experience and interaction a user has with a product.

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