



**Michigan
Technological
University**

College of Computing

Computer Science Department

CS3141 Team Software Project

Spring 2022

Team Software Project proposal

Section: R01

Team #: 5

Roll#	Student name	position
24	Ricardo Nunez Cuesta	Scrum master
22	Sean McCarry	Developer
23	Damion Miller	Developer
21	Noah Kolczynski	Developer
13	Kelsey Hagebusch	Developer

Project name/title: **Smartments**

Instructor name: Serein AL-Ratrou

Project introduction and description:

Smartments is going to help the landlord do their job. They will be able to lease the apartments without even meeting the tenants. Will act as an organization system to make all landlords properties easy to manage. We can have a website with the documentation to pay *special* fees.

Problem statement

What? A portal system for landlords and tenants. Landlords will be able to assign properties to tenants, set rent prices, manage maintenance requests, message tenants, and view who has paid rent. Tenants will be able to pay their bills, submit maintenance requests, and message their landlords.

Why? Many tenants will either not pay their rent or pay late if they need to pay the bill physically, and landlords will want to be able to keep track of which tenants have paid easily.

Tenants also want an easy way to see their bill every month, as well as have easy access to maintenance requests.

We will help the landlord get the tenants payments in time. Facilitate access to tenants. It will also give landlords an easy method to track their properties and have easy access to information about tenants.

Proposed solution:

Iphone, Android, and web applications.

Landlord services: Billing, view reports of filled/vacant apartments or properties, track which tenants are behind on rent

Tenant services: File complaint, pay bill, contact landlord, submit maintenance requests

Tools:

- VS code
- github
- LAMP server
- MySQL Workbench
- FileZilla

Constraints and challenges:

- Scheduling conflicts
- spaghetti code
- lack of time

The expertise of the Team Members

Noah - Experienced in MySQL, PHP and HTML/CSS

Sean - Has used MySQL, PHP, and HTML, knows of CSS, great with google

Kelsey - Has used MYSQL, PHP, HTML, CSS

Damion - has heard of MYSQL and PHP, has used HTML

Ricardo - MySQL, MongoDB, HTML, CSS, Javascript, Java

References

<https://www.youtube.com/watch?v=bMknfKXIFA8>

References

[1] Author, Book Title, publisher, year.

Internet Web page: <https://milkov.tech/assets/psd.pdf>

Title: A philosophy of software design

Publisher: Yaknyam

Year: November 2018

Author: John Ousterhout