
Project Milestone Report

Dukiture

TeamOfBest&Coolest

Outline

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Overview

Dukiture aims to help bridge the gap between sellers and potential buyers **within Duke Community**.

Dukiture solves the pain point of trust by restricting users only with **valid Duke email**.

We are trusted information broker instead of vendor.

User Story

As a buyer, I want to browse furniture information online, so that I can choose my favorite furniture.

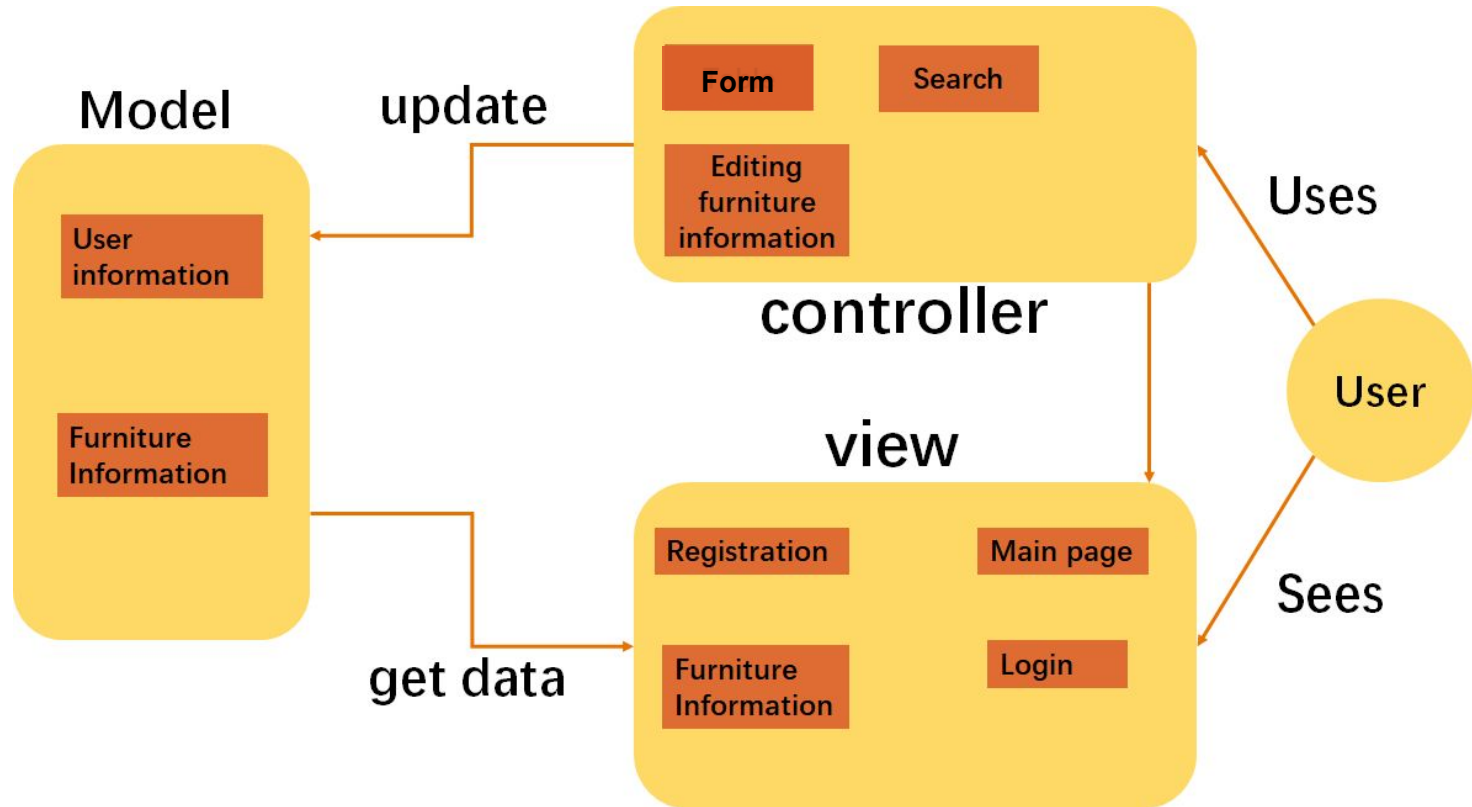
As a buyer, I want to search furniture by keywords, so that I can find the furniture quickly.

As a buyer, I want to make sure sellers are from Duke community, so that I can trust them and contact them easily.

As a seller, I want to post, edit and update the information of my furniture, so that I can let buyers know my furniture.

As a seller, I want to delete my post, so that no buyer will contact me if the furniture is sold.

Architecture Models



Risk Analysis

Risk	Affects	Description
Time of learning new techniques	Project	Most of us should learn java spring. We may underestimate the time to learn before we use its components to implement our product
Environment compatibility	Project	We develop our product on different developing environment, which may cause undefined problems when the product is shipped on final platform
Technology change	Project	We may find the technology (e.g. the third-party library, method) cannot fulfill the demand and want to change it
Requirement change	Project	Our requirement may change (e.g. after this presentation)
The demand is underestimated	Project, Product	More users will use our product than that we estimated which requires more storage, throughput, etc.
Team members are ill	People, Project	We may be ill and cannot finish our task in time

Risk Analysis

Risk	Probability	Effects
Time of learning new techniques	Low	serious
Environment compatibility	Moderate	catastrophic
Technology change	Moderate	serious
Requirement change	High	serious
The demand is underestimated	Moderate	serious
Team members are ill	Low	serious

Risk Analysis

Risk	Strategy
Time of learning new techniques	Estimate the time of learning required techniques before learning. The one who have the knowledge can help the others to learn.
Environment compatibility	The finial platform should be determined at the beginning, and using the platform for testing in each phase.
Technology change	Investigate the technology before we use it. If it still happens, we need to investigate carefully and estimate the time to learn and reschedule our plan.
Requirement change	We will discuss the cost and necessity of the change.
The demand is underestimated	We may rent more facilities to run our service
Team members are ill	The one who is familiar to his/her jobs can take the job to finish it in time. Otherwise, we must reschedule our plan.

Project Plan

Plan	Description	Start	Finish	Dependencies
Sprint One	1, Develop back-end server 2, Develop route for INDEX, SHOW, CREATE, NEW, UPDATE, EDIT and DELETE 3, Configure database, develop models for user and furniture	02/17	03/06	N/A
Sprint Two	1, Create and style front-end web pages 2, Connect front-end web pages with server 3, Add authorization: allow user to register and login 4, Add authentication: allow user to add, edit and delete posted information	03/06	03/28	Sprint One
Sprint Three	1, Build a functional search component with MongoDB and elasticsearch 2, Add search bar to allow users to search furniture 3, Allow users to sort the furniture by price	03/28	04/10	Sprint Two

Current Progress

Task ID	Description	Owner	Start	Finish	Dependencies
Backend Routes Development	Develop 7 RESTful routes including index, create, new, show, edit, update and destroy.	Zhihao Gong	02/17	03/06	N/A
Develop Database Model for User	Develop database model for user that owns username, password and contact information.	Zicheng Yuan	02/17	03/06	N/A
Develop Database Model for Furniture	Design the furniture model that has price, furniture information pictures and description.	Yuanyuan Yu	02/17	03/06	N/A

Simple Demo

- A proof-of-concept demo on what we have right now
 - We have a working registration system => Work NetID signon
 - We have a basic create form => Still work on improving database model
- Not necessarily be like final project

Problems/Future Works

- Duke Email based registration
- Google Map Location Preview

Q&A