

# Final Project

This document serves as the final report for the Vanier Desktop Application development project. It details the functionality, user interaction, and setup process of the application, providing insight into the development and implementation of various features.

## Project Scope :

Our application is designed for users engaged in item trading—individual traders, collectors, and hobbyists—who will benefit from a dedicated platform for listing and trading items. The application is ideal for:

- Collectible Stores
- Hobbyist Communities
- Second-hand Marketplaces
- Local Exchange Networks

## Project Functionalities:

The application encompasses comprehensive trading functionalities:

- User Management: Profiles, personal information management, avatar uploads, and secure login systems for users and admins.
- Item Listings: Users can post items with descriptions, images, and categories, and utilize search and filter tools.
- Communication: A chat system for direct messaging and a notification system to keep users updated.
- Feedback: A review system to leave feedback on items and user interactions.
- Trade Facilitation: A record-keeping system for trade history.

We have established a successful connection with a REST API for database interactions, which is currently the only component of our project interfacing with the REST API.

## Updates since the mid-term include:

- Completion of the user registration and profile management systems.
- Display of all the items created in our Featured Section.
- Improved significantly our UI.

Screenshots and step-by-step navigation instructions will be included to showcase these functionalities.

## Project Setup:

Setting up the application involves:

- Database: Instructions for PostgreSQL setup with pgAdmin.
- IDE: Guidelines for using Visual Studio for WPF development.
- REST API: Configuration steps for local testing and deployment.
- Additionally, we have incorporated NUnit for our testing framework to ensure robust and reliable application performance through unit tests.

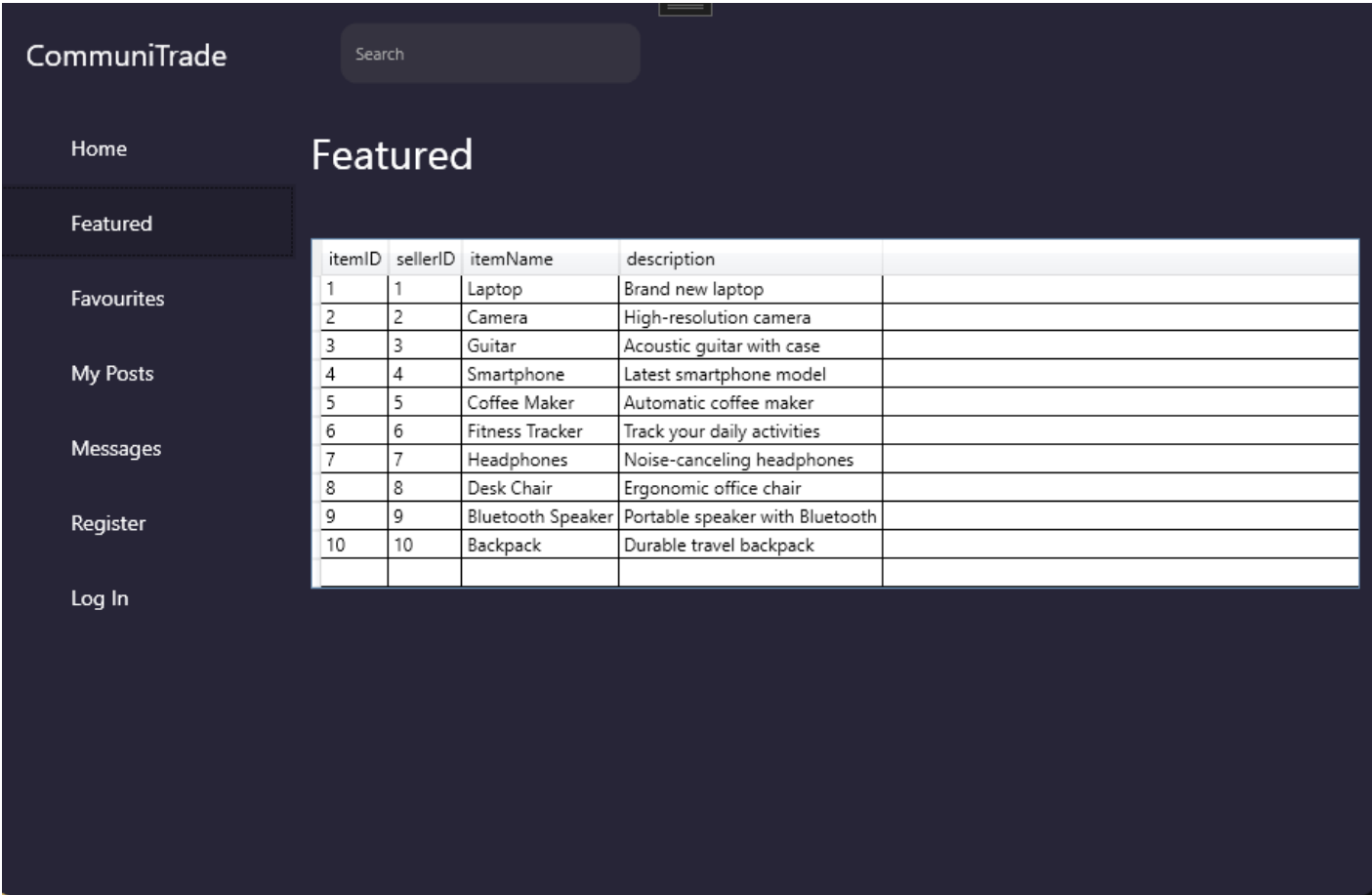
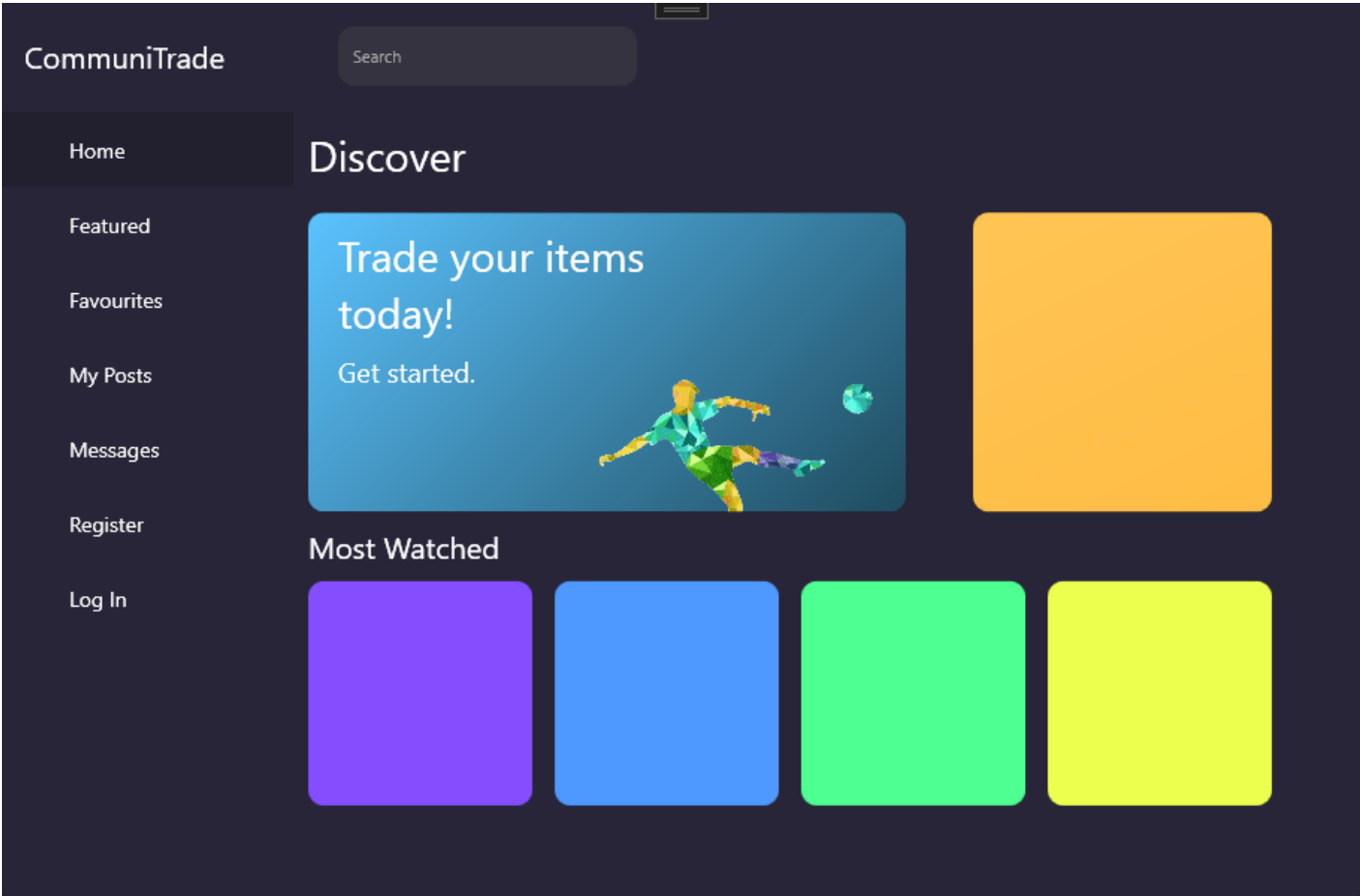
Local adjustments for testing the application will also be detailed.

## Work Progress in Future:

Future enhancements will include:

- Completing the user registration and authentication processes.
- Implementing a feature for users to find the closest items to their location.
- Enabling users to save and share items of interest.
- Allowing for real-time user communication and direct messaging related to item listings.

Screen Shots



CommuniTrade

Search

Home

## Favourites

Featured

Favourites

My Posts

Messages

Register

Log In

CommuniTrade

Search

Home

## Login

Featured

Favourites

My Posts

Messages

Register

Log In

Username

Password

Login

Home

Featured

Favourites

My Posts

Messages

Register

Log In

## Messages

Home

Featured

Favourites

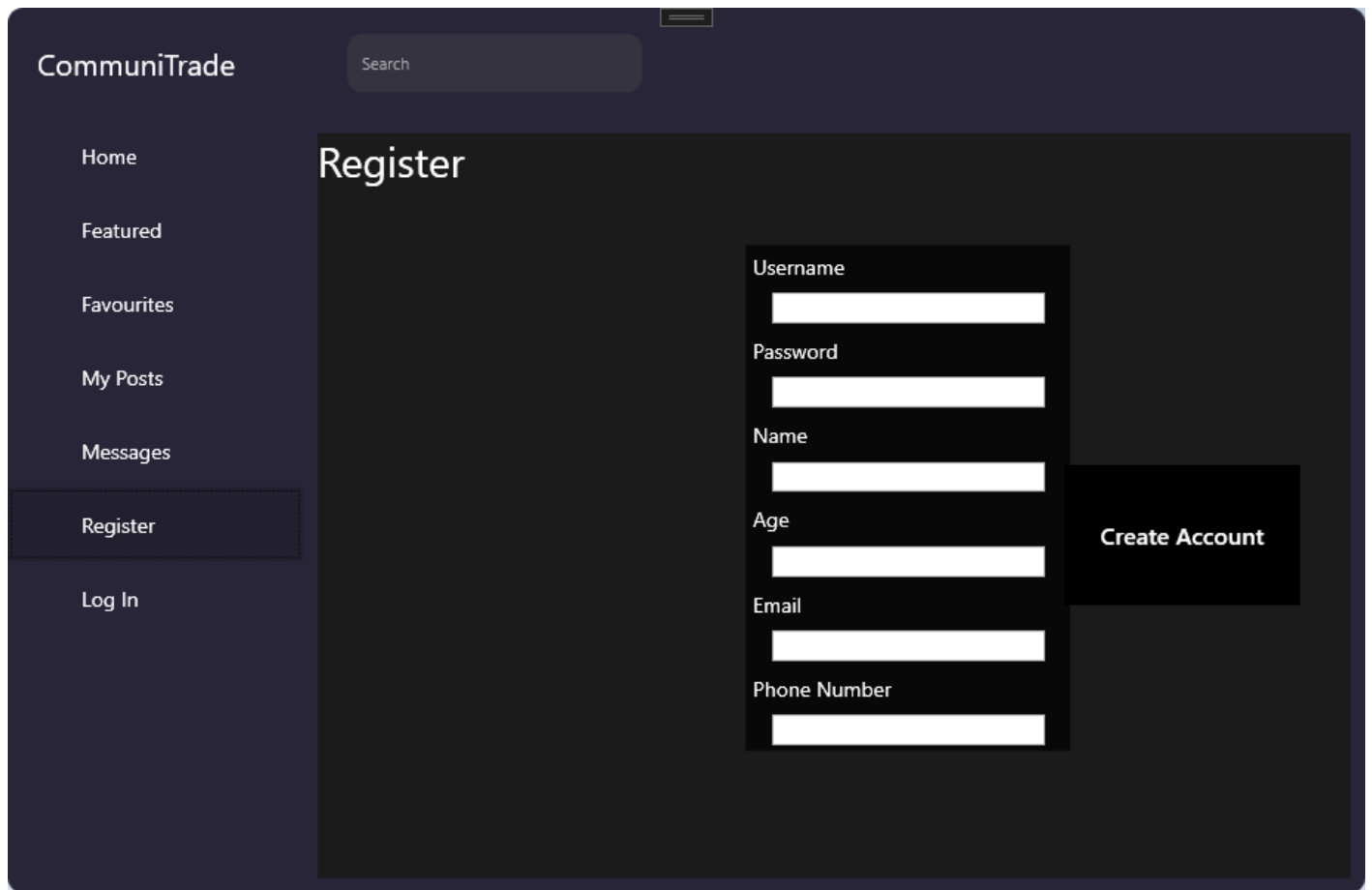
My Posts

Messages

Register

Log In

## My Posts



## Testing

