



Bilkent University

Department of Computer Engineering

CS 319 Project

Best Trade

Final Report

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Contents

1. Implementation.....	3
2. Status Report.....	3
3. User Guide	3
3.1 Introduction	3
3.2 Installation.....	3
3.3 Using the system	4

1. Implementation

We start the implementation by considering our design and layers. It is organized into three subsystems. First we started to implement the classes of User Interface subsystem and the classes of Trade Subsystem. Then we started to implement the class of Database Management subsystem. The graphical user interface is not challenging, but arranging panels and transition between them by buttons and arranging their visibilities take time. Also the classes of Trade Subsystem is not challenging, because the our design of hierarchy is not complicated. The implementation of Database Management Subsystem is challenging for us. Because SQL and the database is a new notion for us. When the user pushes data to database, the data is not refreshed and we had connection problems. We did not make major changes on our design while implementation.

2. Status Report

- User Interface Subsystem– 60%
- Trade – 60%
- Database Management –20%

The functions and the interaction between our classes and database will be investigated more deeply.

3. User Guide

3.1 Introduction

BestTrade is a system that user can view, add items (books, furnitures, notes) to sell. Users have accounts to log in the system.

3.2 Installation

1. System Requirements

- It requires Java Runtime Environment

3.3 Using the System

The Login Screen is displayed when the application starts first.

1) Login Screen

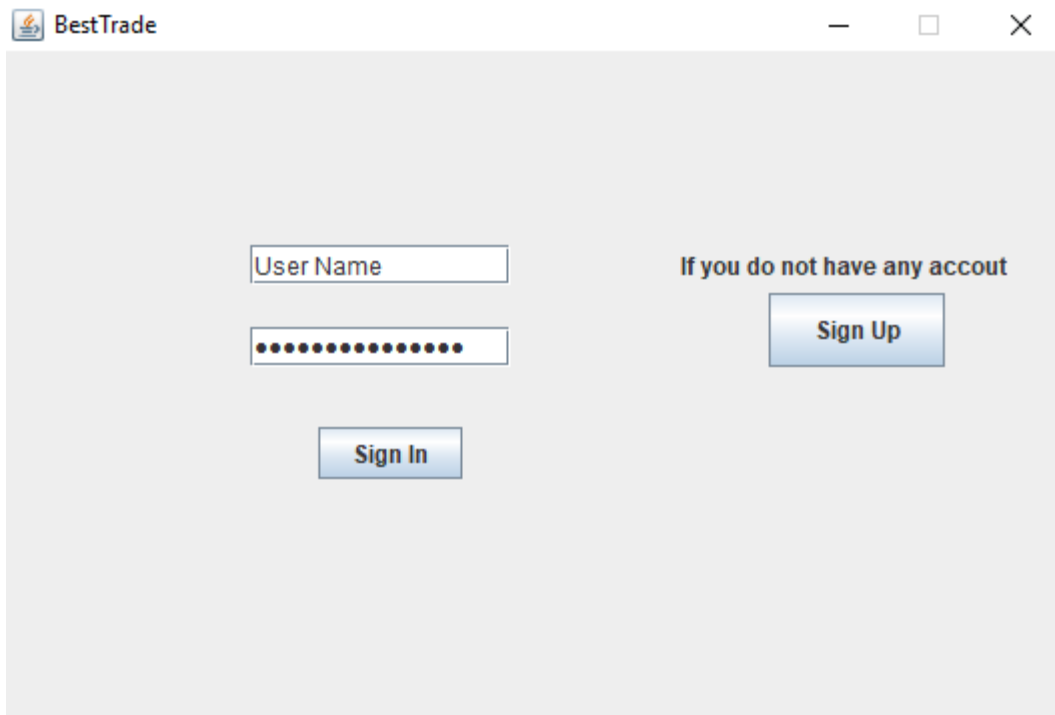
The image shows a screenshot of a web application window titled "BestTrade". The window has a standard title bar with minimize, maximize, and close buttons. The main content area is light gray. On the left side, there are two input fields: the top one is labeled "User Name" and the bottom one contains a series of black dots, representing a password field. Below these fields is a blue button with the text "Sign In". On the right side, there is a text label "If you do not have any account" and a blue button with the text "Sign Up".

Figure 1 – Login Screen

In this screen, users that had an account can write their unique username and password to enter the screen. The ones who has not an account can click on the "Sign Up" button to create an account.

2) Trade Screen

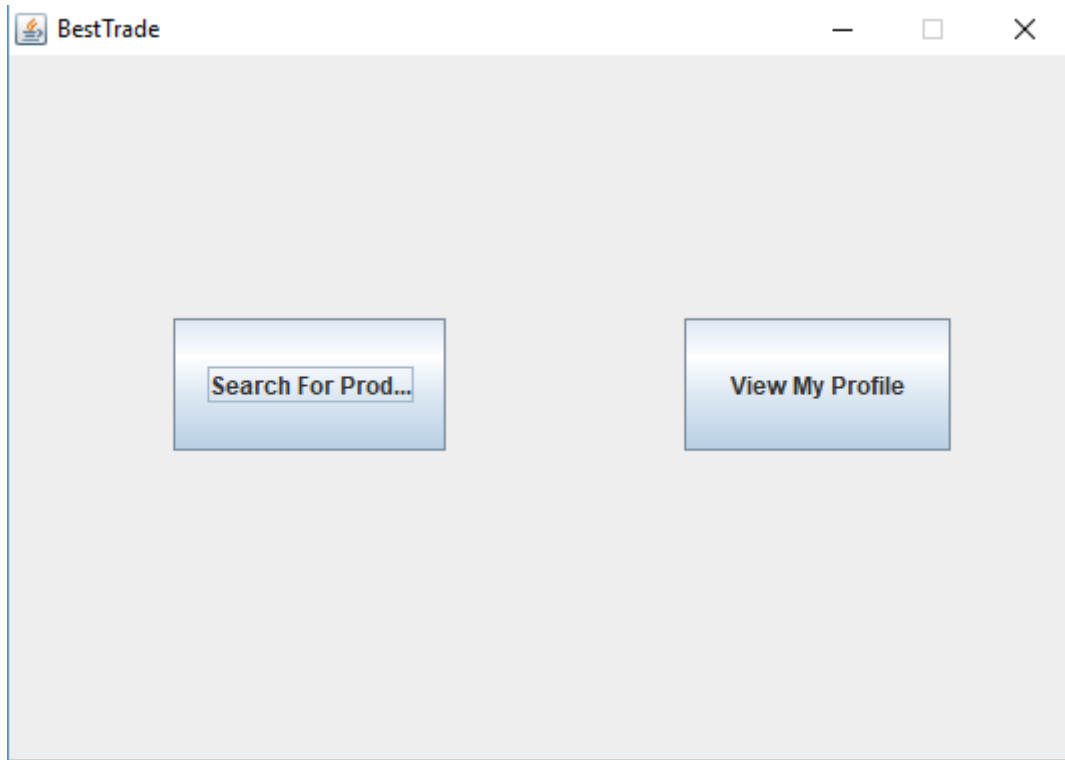
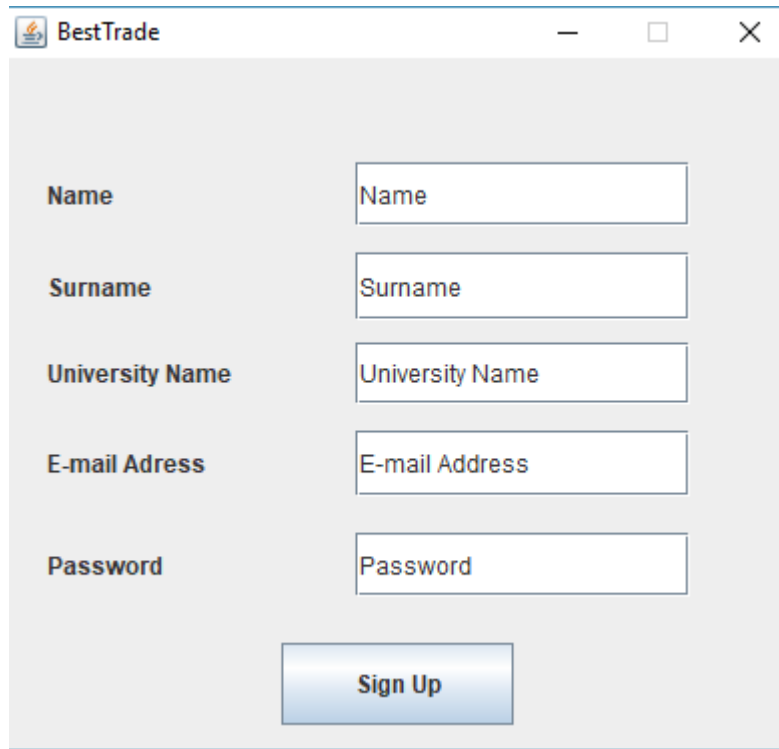


Figure 2 – Trade Screen

This screen displays itself if the sign in process is successful. Users can either search for items that other user sells in system or check their profiles.

3) Sign Up Screen



The image shows a screenshot of a web application window titled "BestTrade". The window contains a sign-up form with the following fields and labels:

- Name**: A text input field with the placeholder text "Name".
- Surname**: A text input field with the placeholder text "Surname".
- University Name**: A text input field with the placeholder text "University Name".
- E-mail Address**: A text input field with the placeholder text "E-mail Address".
- Password**: A text input field with the placeholder text "Password".

Below the input fields is a blue button labeled "Sign Up".

Figure 3 – Sign Up Screen

In this screen, users have to enter the information that is needed to sign up to the system. However, the username and e-mail address must be unique in order to successfully signing up to the system.

4) Activation Code Screen

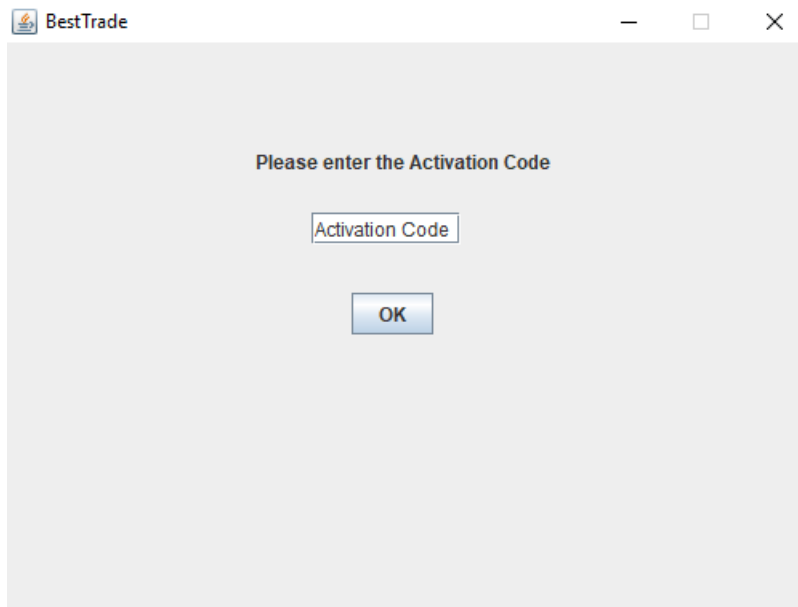


Figure 4 – Activation Code Screen

After a successful sign up period, this screen automatically shows up and asks for a activation code that the system sends to the given e-mail address.

5) Add Item Screen

BestTrade

My Profile

Category: Book

Price: Price

Condition: Zero

Description: Type the Feature

Upload Photo: OK

Save

Figure 5 –Add Item Screen

This screen enables users to add an item based on the attributes they give to the system. After clicking save, the attributes are saved.

6) View Item Screen

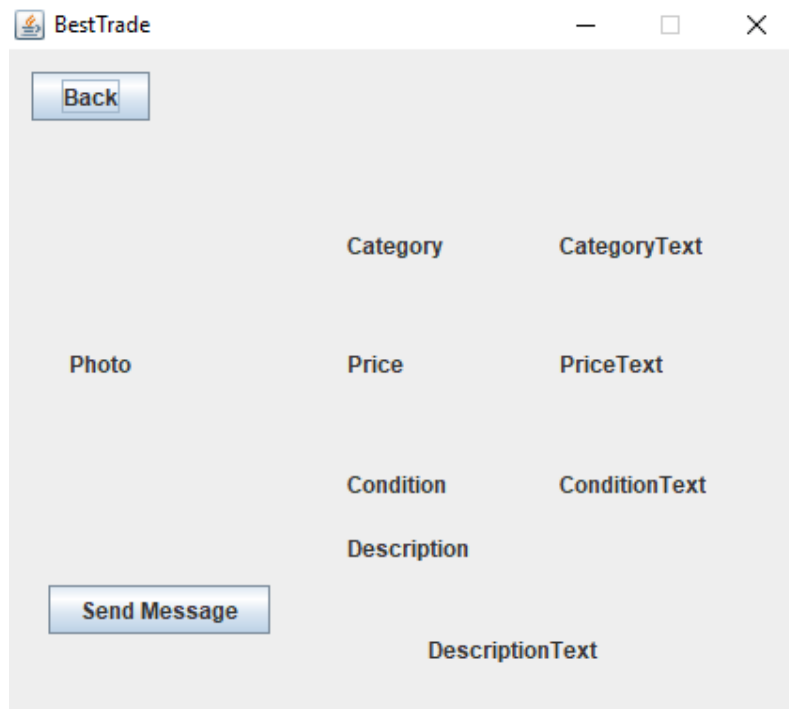
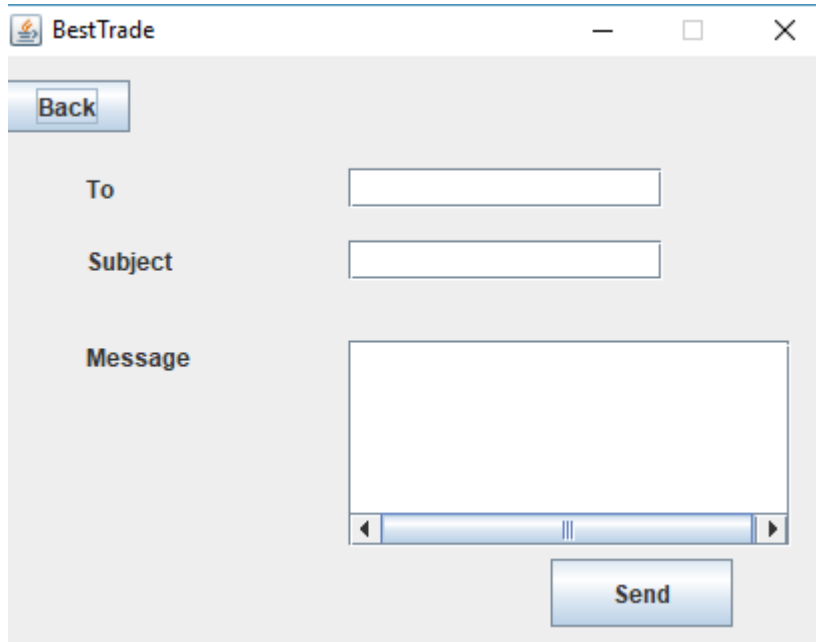


Figure 6 –View Item Screen

In view item screen, users can check any item that they see. The item has a photo, a category, a price and condition whether it is second hand or not.

7) Send Message Screen

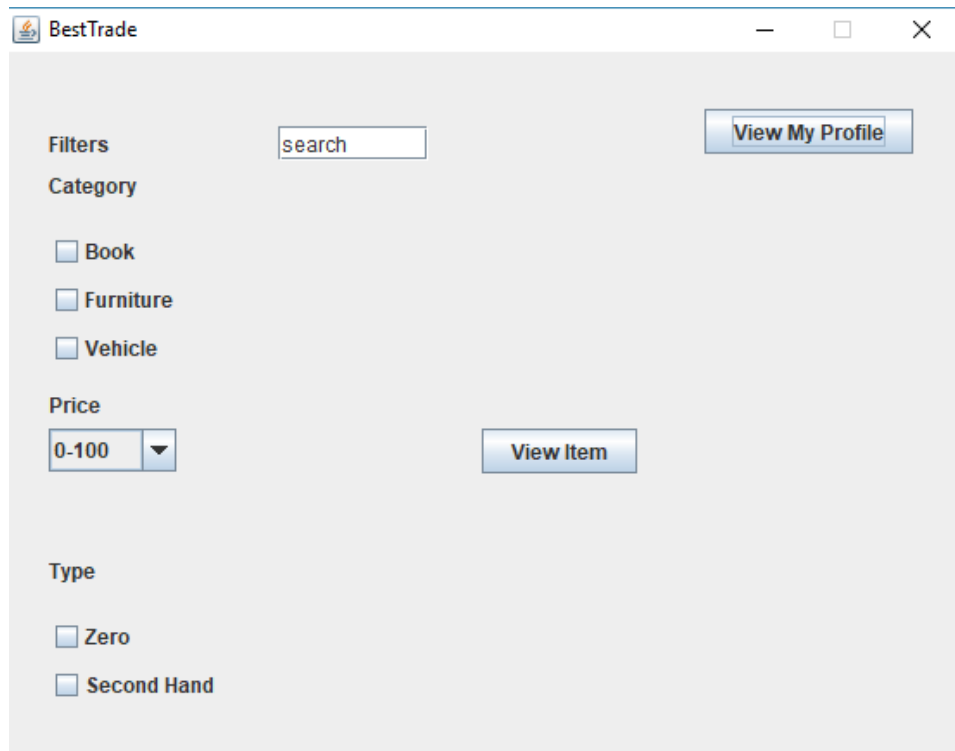


The screenshot shows a web application window titled "BestTrade". The window contains a "Back" button in the top left corner. Below the "Back" button are three input fields: "To", "Subject", and "Message". The "To" field is a single-line text box. The "Subject" field is a single-line text box. The "Message" field is a multi-line text area with a scrollbar. At the bottom right of the window is a "Send" button.

Figure 7 –Send Message Screen

In send message screen, the users can send messages to a user that sells items. To send a message, the user has to write the other user's name, what the subject is, and some message to clarify the subject.

8)Search Item Screen

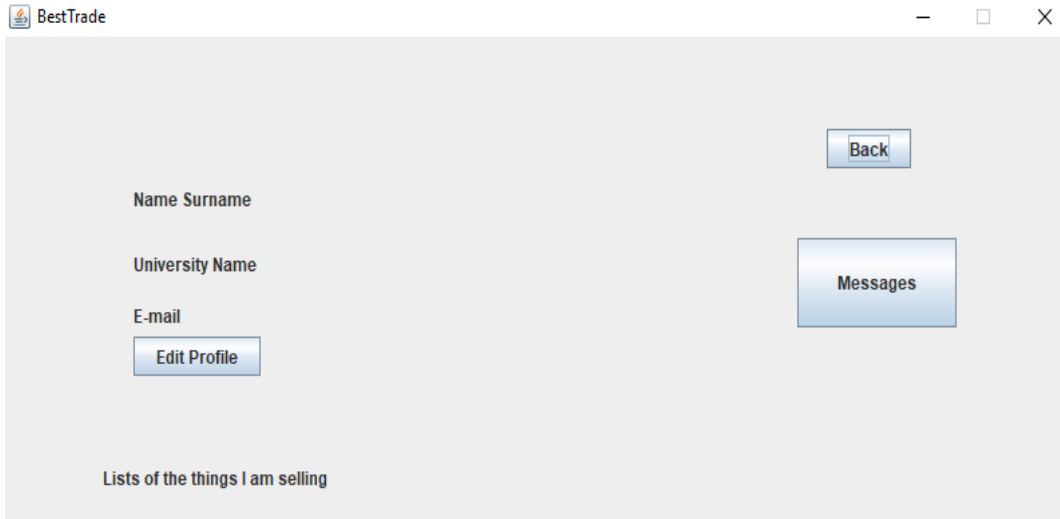


The screenshot shows a web application window titled "BestTrade". The interface is divided into several sections for filtering search results. On the left, under the heading "Filters", there is a "Category" section with three checkboxes: "Book", "Furniture", and "Vehicle". Below this is a "Price" section with a text input field containing "0-100" and a dropdown arrow. At the bottom left is a "Type" section with two checkboxes: "Zero" and "Second Hand". In the top center, there is a search input field with the placeholder text "search". To the right of the search field is a button labeled "View My Profile". Below the "Price" section is a button labeled "View Item". The window has standard OS controls (minimize, maximize, close) in the top right corner.

Figure 8 –Search Item Screen

In this screen, users can search for any item they wanted via the filters on left. The items which corrects those filters is presented on the middle of screen.

9)My Profile Screen

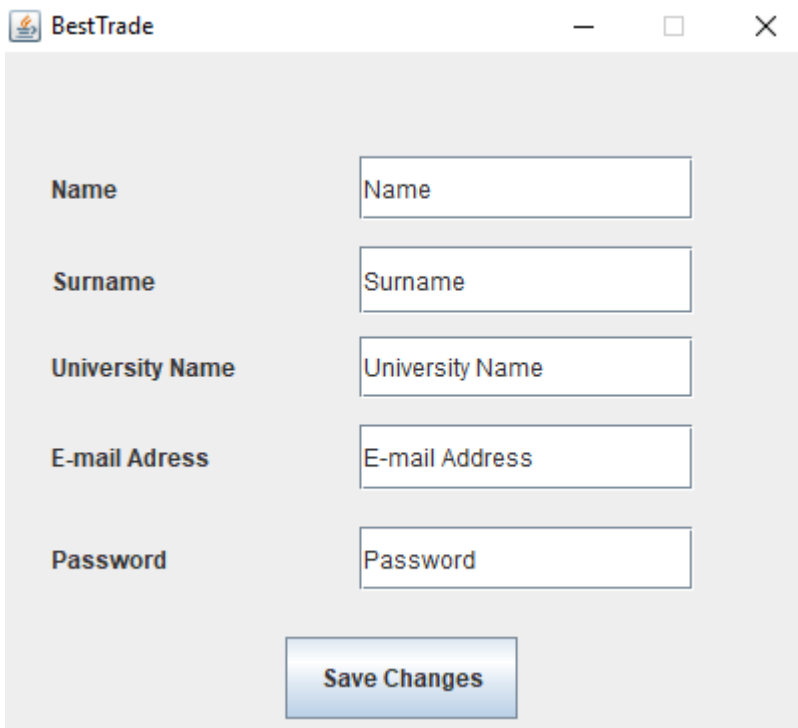


The screenshot shows a window titled "BestTrade" with standard Windows window controls (minimize, maximize, close). The main content area is light gray. On the left side, there are four labels: "Name Surname", "University Name", "E-mail", and "Edit Profile". The "Edit Profile" label is positioned above a blue button with the text "Edit Profile". On the right side, there are two blue buttons: "Back" at the top and "Messages" below it. At the bottom left, there is a link that says "Lists of the things I am selling".

Figure 9 –My Profile Screen

This screen contains information about the user. In this screen, any user can edit their existing profiles, delete or edit their item information, take a look at the items the user is selling at the moment, or look at their inbox via "Messages" button.

Edit Profile



The screenshot shows a window titled "BestTrade" with standard Windows window controls (minimize, maximize, close). The main content area is light gray. It contains five labels on the left: "Name", "Surname", "University Name", "E-mail Address", and "Password". Each label is followed by a text input field containing the same text as the label. At the bottom center, there is a blue button with the text "Save Changes".

Figure 10 –Edit Profile Screen

This screen has similarities with the sign up screen, however in this screen, users can change their profile information.