

**METU, Department Of Computer Engineering**  
**Graduation Project**  
**Proposal Form**

**Project Information**

**Title**

Trade Center

**Target**

Public [  ]      Restricted [  ]

**Proposer Information**

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**IP (Intellectual Property) Information**

All intellectual property rights belong to our project group, namely "Takla" (we do not consider finding any sponsor(s)).

## Project Description and Background Information

### Description

In this project we will design a mobile application for Android platform for selling, exchanging, and sharing items.

Properties of the application

- Users will be able to login with either their Facebook accounts or e-mails.
- Users will also be able to use the application as guests but with limitations.
- Each user will have their Store, Interests, and Urgent Needs tabs.
- Users will fill their Store with items they want to sell, exchange or give cost-free. They will be able to choose one or more of these sharing options for each item in their Store. Every item will be under a selected category and have an address.
- In their Interests tab, users will select categories which they are interested in. If an item has an address which is near to the user (this will be determined by using GPS) who has selected the item's category as an interest, a notification will be send to that user which briefly tells that an item which they can be interested in is available for buying/exchanging/getting for free near him/her.
- In Urgent needs tab, users will select items which they need. If the selected item(s) is available for buying/exchanging/getting for free near the user (this will be determined by using GPS), s/he will receive a notification which tells that the item s/he need is available near.
- Users will also be able to choose locations for their interests or urgent needs where they want to be aware of the items that are being shared.
- Users will be able to communicate by using either the messenger system which the application will have, or their contact information.

### Similar Products/Projects

There are some web-based applications similar to the concepts that are thought in our project, but none of them are even location based to begin with. Their interfaces and functionalities are much like well-known web sites Hepsiburada, eBay, Amazon etc.

“Semt” is the only mobile application that quite resembles our project in terms of being location based, and consisting different tabs in its interface

### Justification of the proposal

The main purpose of the project is to develop a mobile application which makes selling, exchanging, giving away items easy. There is no available location based application which can integrate the concepts of selling, exchanging, and simply giving away items while keeping the application alive by constantly updating users' location information and send notifications to them according to both their interests and needs. We'd like to design an application that can achieve all these.

## Contributions, Innovation and Originality Aspects of the Project

The main contribution of our application is improving rummage trade. Therefore we aim to make people reach their needs easily. While using other applications or the internet, users may have to check the announcements of sale many times to find their needs. However, we will create an application which makes its users be aware of the announcements of sale according to their interests, location and needs by sending them notifications. Simply, our application will always makes its users get the best offer. In addition to this our application will include all trading options, which are selling, exchanging, and simply giving away items.

## Technical Aspects of the Project

Since it will be an Android-based project, Java and XML are going to be used in the project. Database management will be vital, along with a smart and simple design for the front-end. GPS information of the users will be fetched and used, which serves the project's main difference.

## Targeted Output, Targeted User/Domain Profile

End product will be an Android based application with a user friendly, simple interface which we hope is going to gain popularity in its respective field. Our targeted user profile is simple: all people who want to share their items or who have needs.

## Project Development Environment

No specific constraint on the software, hardware and programming languages.

## External Support

We are planning to use some basic open source libraries to help our project.

## References

<http://developer.android.com/index.html>