Group 07

Cadger
Vision Document

Version 2.0

Revision History

Date	Version	Description	Author
10/11/2022	1.0		Group 07
23/11/2022	2.0	Add 2 new features	Group 07

Table of Contents

Vision (Small Project)

1.   Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of Cadger. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the Cadger system fulfills these needs are detailed in the use-case and supplementary specifications.

2.   Positioning

2.1   Problem Statement

The problem of	lending and borrowing item from another student
Affects	the students in the same dormitory
the impact of which is	the student who does not want to buy the item that is used once and the student who wants to trial the item before buy it
a successful solution would be	helping student can lending and borrowing item easily

2.2   Product Position Statement

For	students in the same dormitory
Who	lend and borrow the item
The (product name)	Cadger
That	allows students to lend the item that they no longer need to use and borrow the needed item
Our product	ensures the trust between lender and borrower is verified by their identities

3.   Stakeholder and User Descriptions

This section describes the stakeholders and users of Cadger. There are 2 types of accounts: Admin and student (lender, borrower).

3.1   Stakeholder Summary

Name	Description	Responsibilities
Group7	Development Team	Responsible for project funding approval. Monitors project progress
Nguyen Minh Huy	Supervisor	Provide guidelines
Classmates	Student	Participate in reviewing the product
Group7	Maintain Team	Represent the interests of the maintain team

3.2   User Summary

Name	Description	Responsibilities	Stakeholder
Student	List the item that want to lend, request to borrow the item.	List the items to be lent and request to borrow	Self-represented
Admin	Moderate, remove spammers, hackers	Moderate the system	Self-represented

3.3 User Environment

The users are educated, computer literate and in most cases own personal phone using android system. Cadger will be limited to students in dormitory.

3.4 Summary of Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Borrow items	High	Students look for an item but cannot find the right person to borrow	Students asking people, one-by-one, for information	An online platform similar to shopping websites where students can easily look for a specific item
Trying new items	Low	Students want to try new electronic appliances, equipment, tools,... before deciding to buy the item or not	Most shops don't let customers try using new devices	

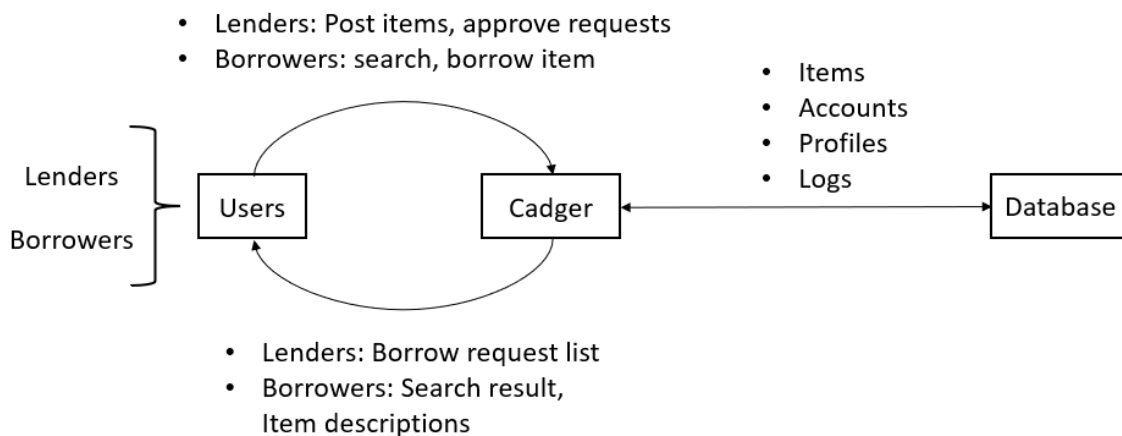### 3.5 Alternatives and Competition

There are currently applications that also allow users to borrow items. For example: Mooch, BorrowMe, Peerby,…

4. Product Overview

TBD

4.1 Product Perspective

Cadger will consist of a client component (on Android smartphones), a server component and a database (as illustrated in the picture below). Any clients must install the client software in order to access the application.

4.2 Assumptions and Dependencies

TBD

5. Product Features

No.	Name	Description	Priority
Account			
1	Sign up	Users provide a valid ID (also used as username) and a password in order to sign up an account on Cadger.	High
2	Log in	Users enter an ID and the correct password to log in to their accounts.	High

3	Forget password	If users forget their accounts, they shall choose "Forget password", which leads to a page where they can reset their passwords..	Low
4	Profile setup	Users enter their personal information, including full name, day of birth, gender, department, avatar,…, to create a profile. Others can choose a specific user's name to see his/her profile.	Low
Lend			
5	Lend	Users post an item that they can lend someone else on Cadger. Lenders need to provide an overview of the item, including a name, a detailed description and a picture of the item they post.	High
6	Borrow request list	Borrow requests and their information appear as a list for each item. The lender selects from this list for their item request to approve (other requests are automatically rejected).	High
7	Stop lending	Users select "Stop lending" to remove their item from Cadger.	Low
8	Confirm return	Lenders confirm that the borrower has returned the item, and the item is marked as available.	Medium
9	Rate borrower	Rate how reliable your borrower is (1-5).	Low
Borrow			
10	Search	Users can look/browse for a specific item. Users can select different filters to narrow down the list of items that they want to see.	Medium
11	Borrow	Users send a request to borrow the item to the lender. Users need to provide reasons for borrowing and borrow schedule. Users can request to borrow either available or unavailable items. For unavailable items, users need to schedule their date after the item has been returned. The system collects every request for each item and create a "Borrow request list".	High
12	View item description	Each item has an overview with detailed information, written by its lender.	Low
13	Return item	Borrower asks to return the item back, and suggests the meeting point. The system automatically sends a "Thanks" message to the lender.	High
14	Rate lender	Users rate how much they like the item.	Low
Log			
15	History of borrowing activities	See what item the user borrowed.	Low
16	History of lending activities	See who borrowed the item.	Low
Administration			
17	Suspend an account	Moderator can suspend an account that violates Terms of service, or a malicious account	High
Other			
18	Report	Users can report an account that violates Terms of service. Examples: Damaged items, refusing to return back on time,…	Low
19	Notifications	Users are notified of events involving them. Examples: an item request is sent, a borrower requests to return an item,...	Low

6.   Non-Functional Requirements.

- Encode all usernames and passwords
- The system should have the ability to handle a maximum of 150 users at a time.

- Total downtime from 7am to 23pm should not exceed 30 minutes
- Total downtime from 23pm to 7am should not exceed 10 minutes
- The application works on Android
- Each page must load within 1 second