WriteDown

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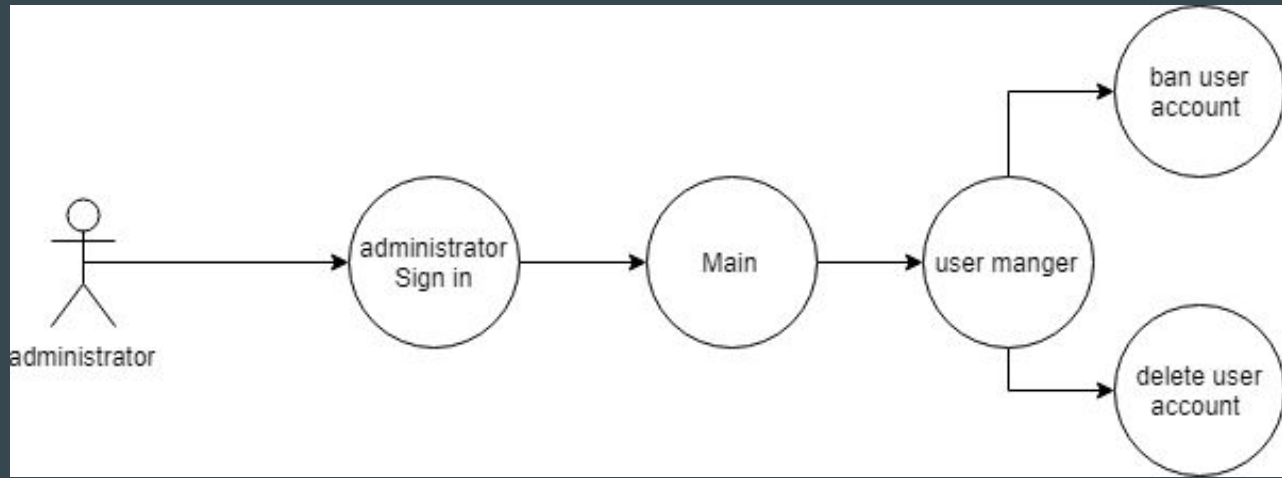Team: Mengmeng Liu,Yangling Hu,Ruifeng Zhu, Yiheng Jiang

Design

Use case 1: the administrator manages the user account.

Actor:The user, The administrator

Prerequisites: The administrator has an active administrator account.
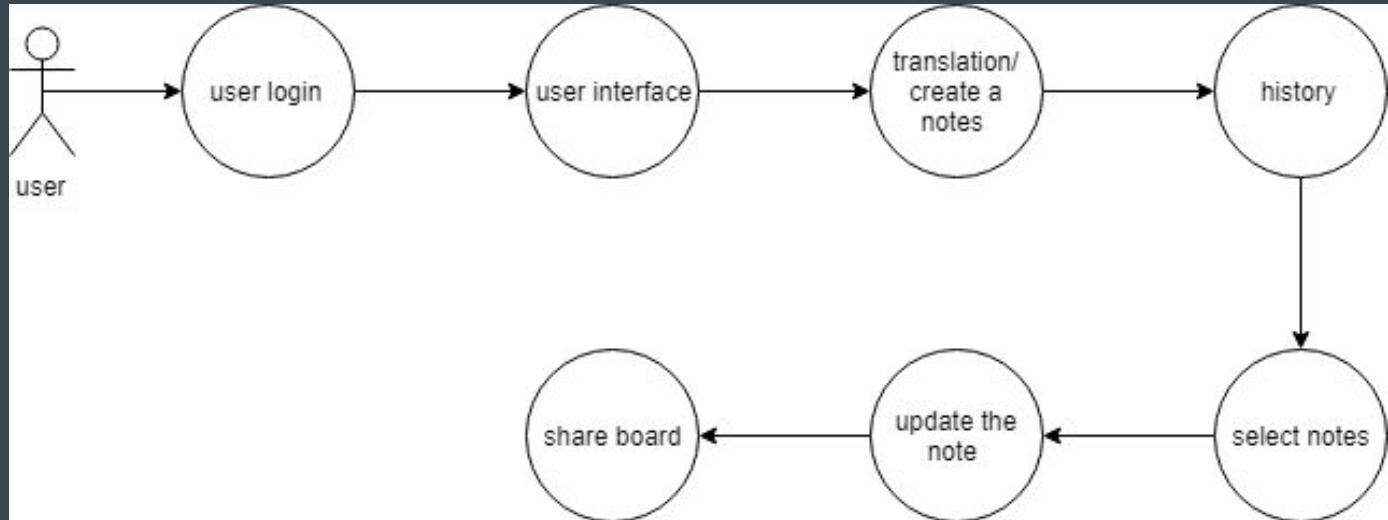
Users have their own personal accounts

Use cases:

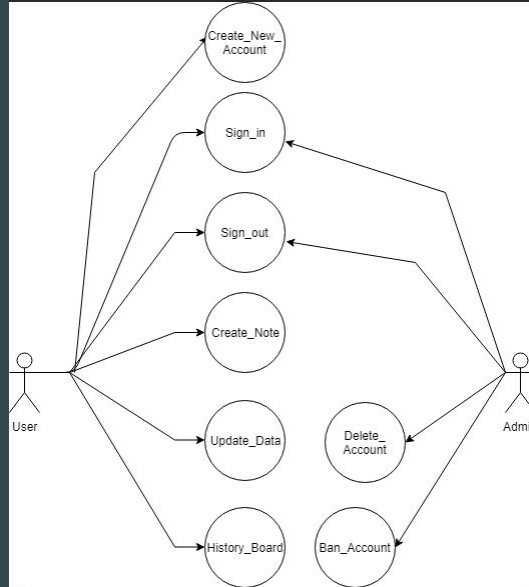Use case 2: the user uploads an existing history translation note.

Actor:The user

Prerequisites (one or more) : The user has an active account.

There are translation notes in the user history
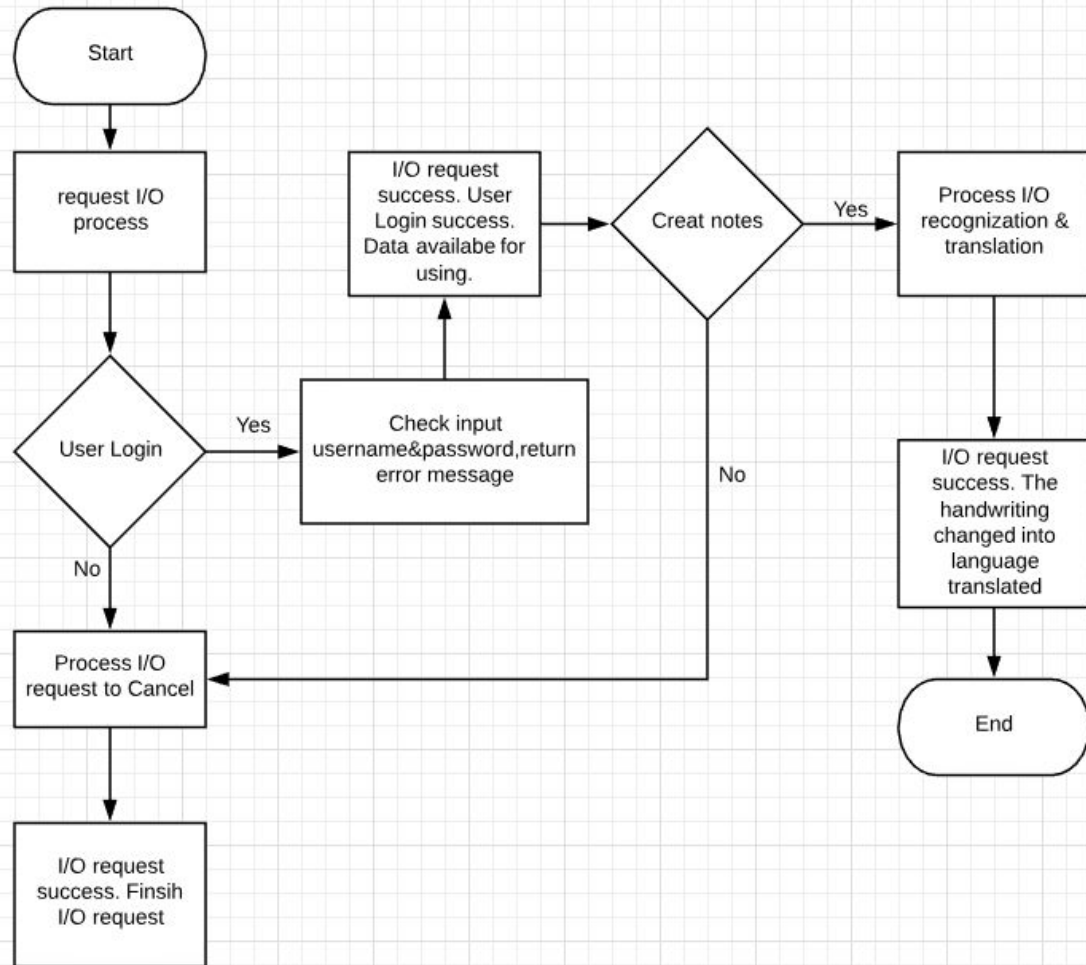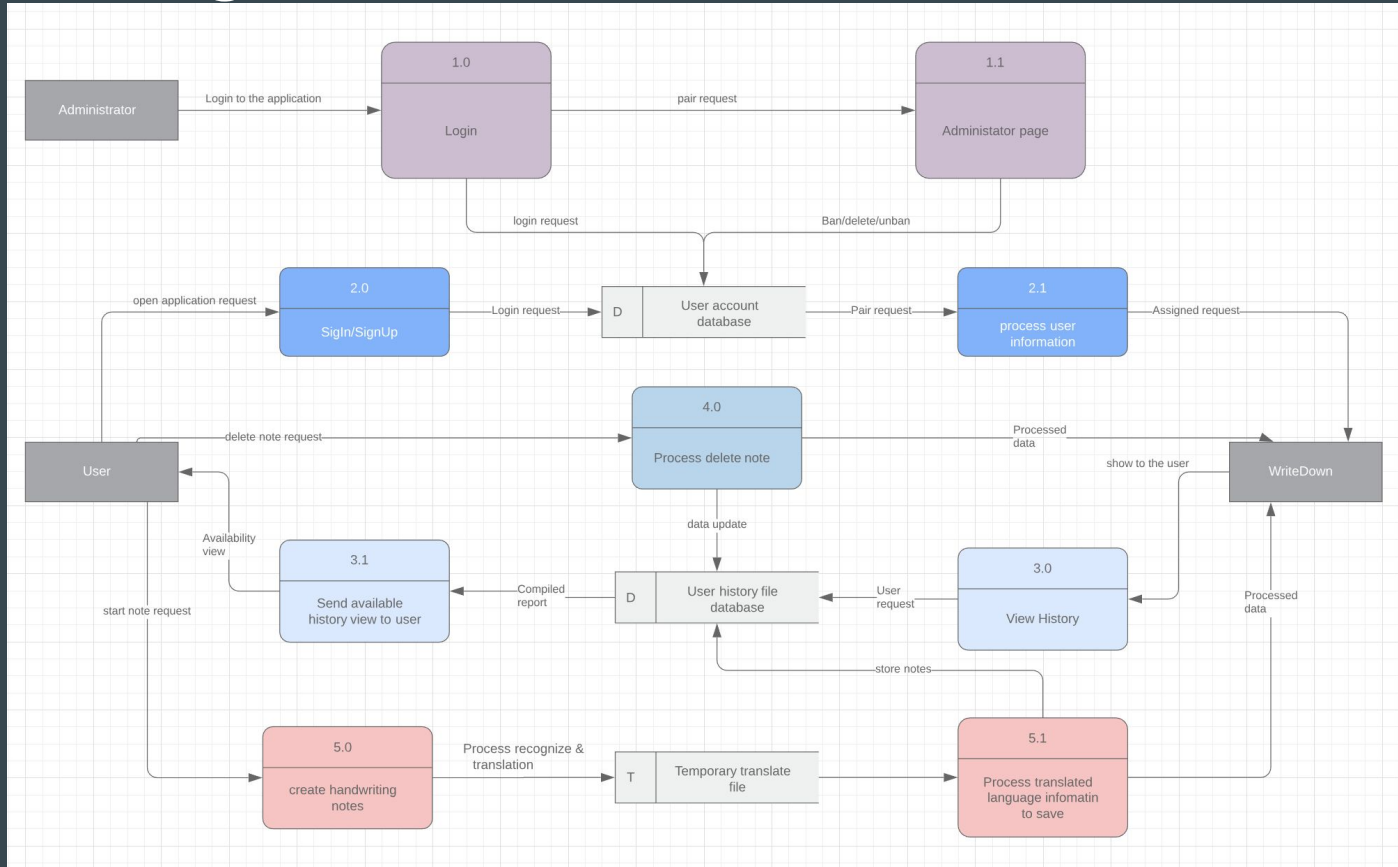
Use cases:

Overall Use Case

I/O Diagram
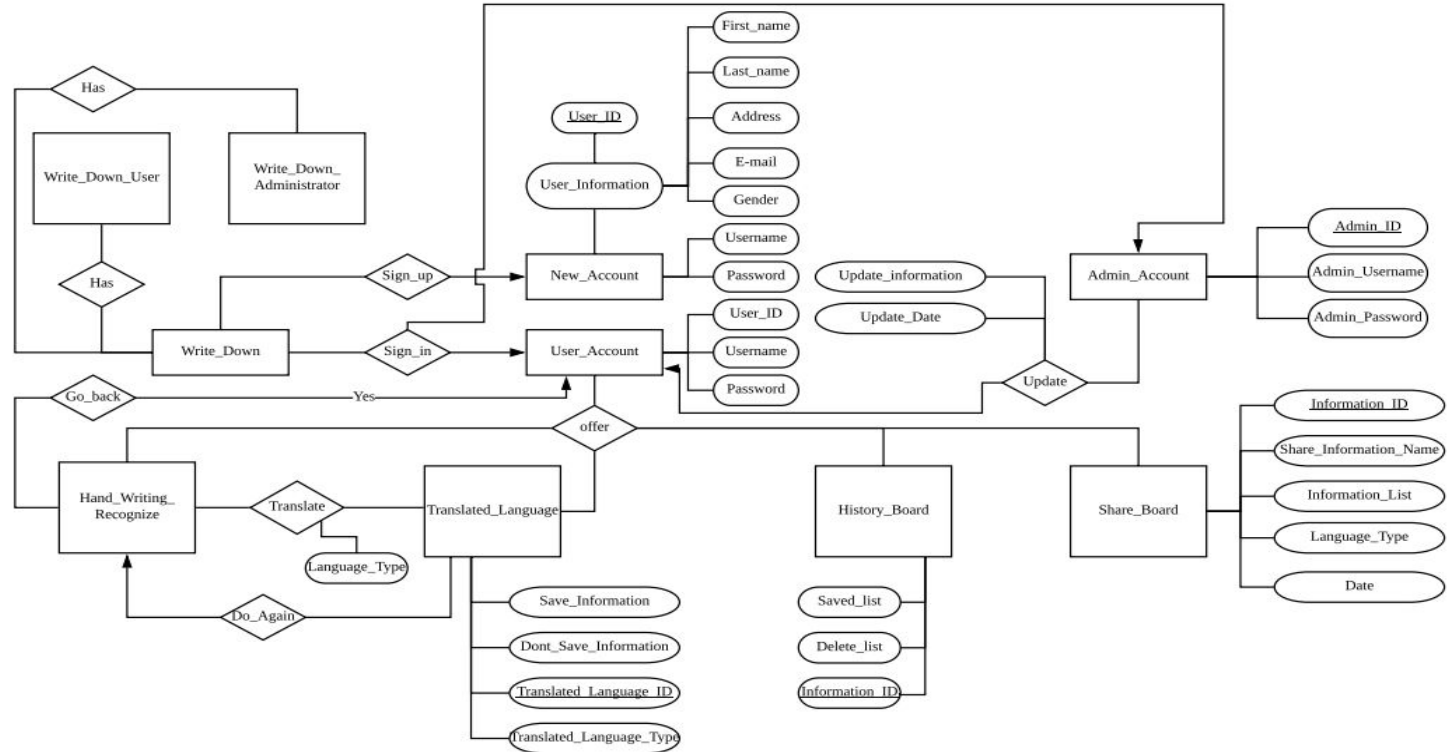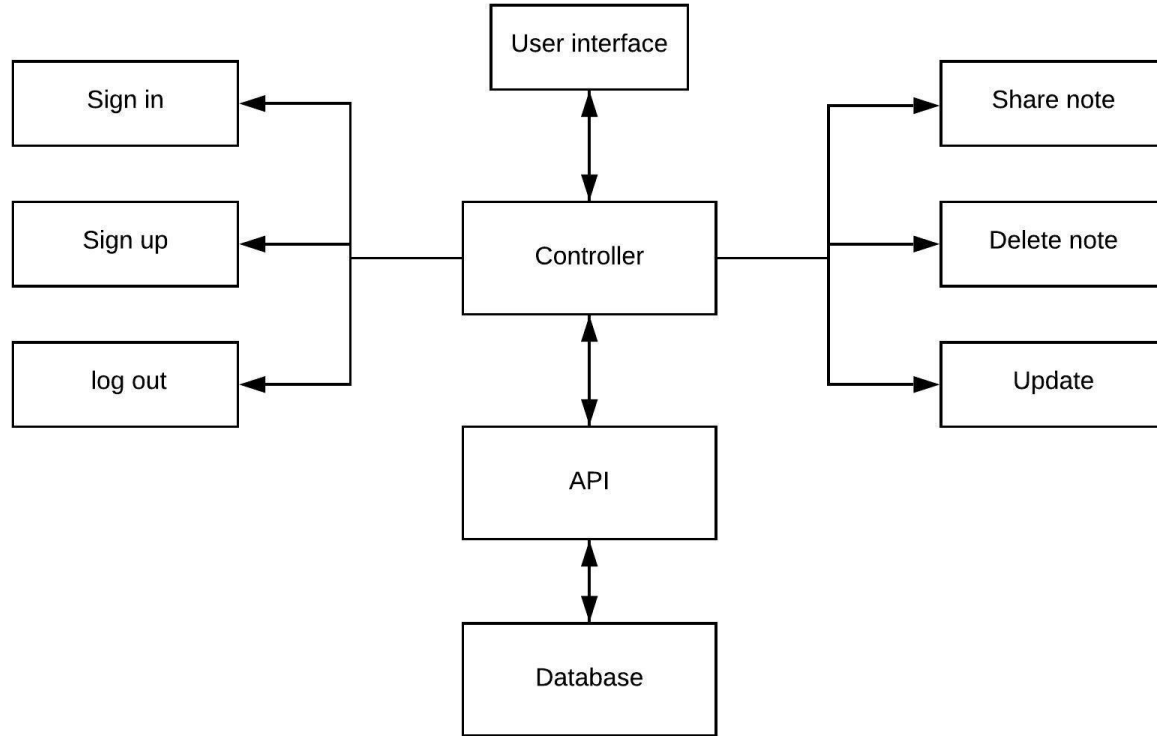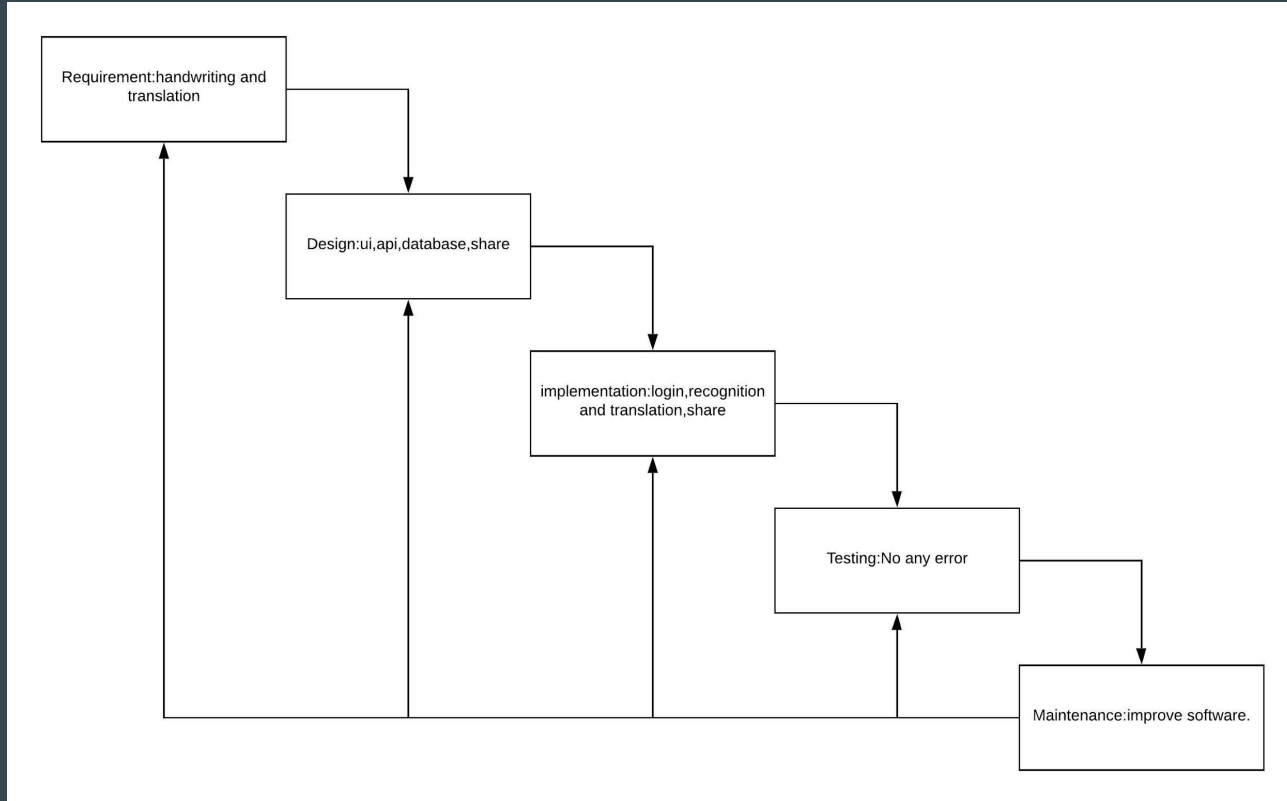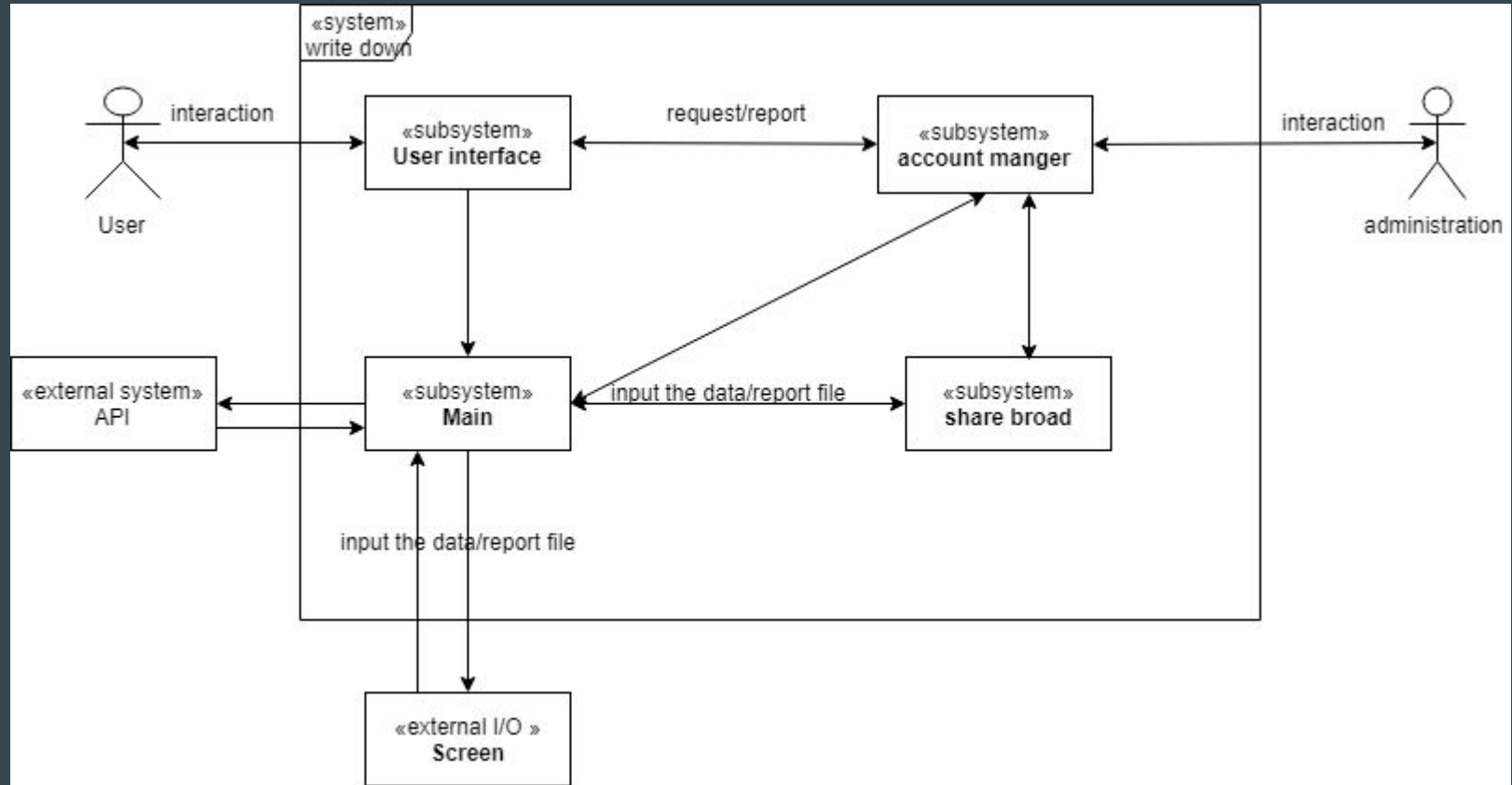
Data Flow Diagram

ER-Model

System model

Process Model

Requirement:handwriting and translation

Design:ui,api,database,share

implementation:login,recognition and translation,share

Testing:No any error

Maintenance:improve software.

Simplified Sub-system to System interaction

Data dictionary

Column Name	DataType	Description
Uuid	VARCHAR()	Unique Id Key with random value, PK, UN
LastName	VARCHAR()	User lastname
FirstName	VARCHAR()	User firstname
Gender	INT()	0- For male 1- For female
Address	VARCHAR()	(optional)
Username	VARCHAR()	Input username with characters ,symbols and interages,UN
Password	VARCHAR()	Input password with characters, symbols and interages
Usertype	INT()	0 for the normal user 1 for the administrator
Email	VARCHAR()	Input Email by correct email address, UN
Banned	INT()	1- for banning user account 0- for normal user account use
Img	VARCHAR()	Img update for user setting
History	VARCHAR()	Store data to the database from user account

Running time

- Application operation O(1)
- Login/Logout O(1)
- API/OCR loading O(log(n))
- Database(B-tree search)   O(log(n))
- Handwriting O(1)
- Overall running time O(N)

Thank You!

Any questions?