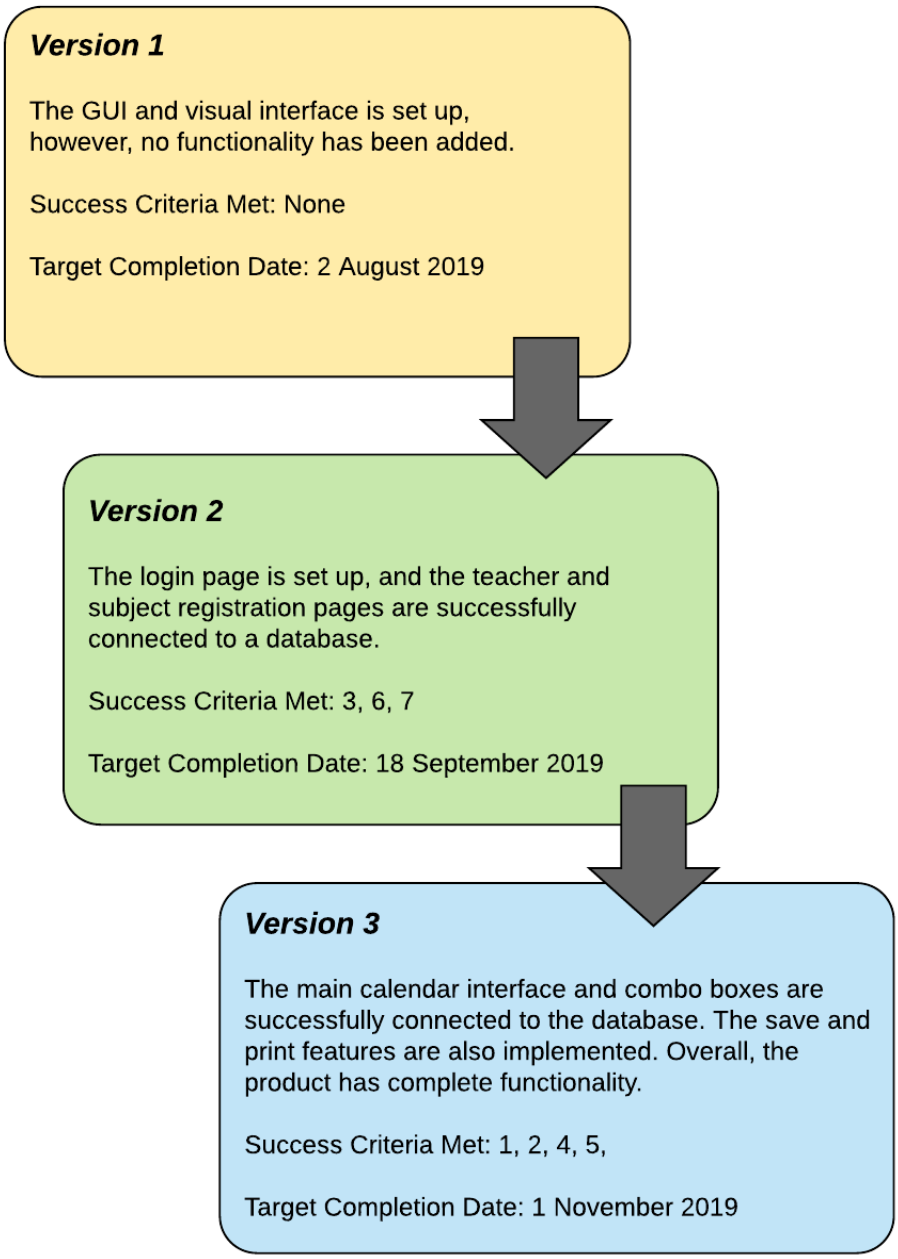
Design

Test Plan

Test Name	Test Type	Success Criteria Addressed	Nature of Test	Expected Result
A	Add new reservation with notes	2	The client is able to create reservations by dragging from two areas of the timetable interface and add notes after	Reservation with notes is successfully created.
B	Delete reservation	3	The client is able to delete the reservation, by clicking on it and simply pressing the delete key.	Reservation is successfully deleted.
C	Timetable interface shows dates and timings as desired	1	The client is able to click the “Timetable” option on the home page	Timetable view shows dates, and timings for the day.
D	Timetable interface shows combo boxes that are connected to the database and can be updated	1	The client is able to click on a combo box that displays all the names of teachers, subjects and year-levels that update when changes are made to the database.	Clients is able to click on a combo box, displaying all updated teachers/subjects/year levels
E	Login using the desired username and password	8	The client is able to input the chosen username and password to access the main menu, with error checking.	A successful login will open the main menu, with error check if wrong username or password
F	Save reservations made	4	The client is able to click ‘save’ on the menu bar and save reservations made, saved locally as an XML file.	File saving interface shown, option to rename file and choose save location.

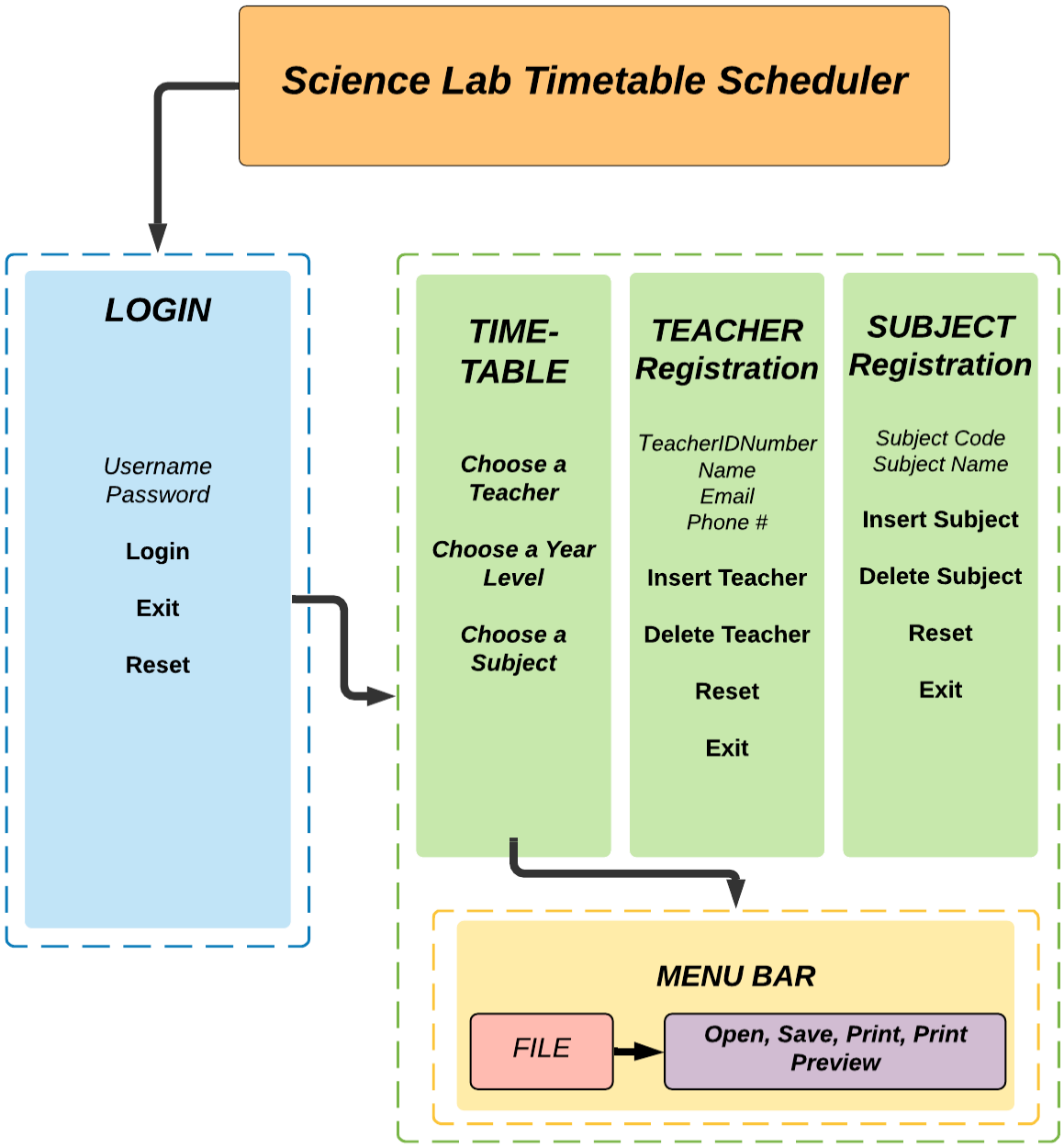
G	Open the saved XML file, retrieving reservations previously made	4	The client can open an existing XML file to load the previously created reservations	Previous reservations are seen.
H	Print and print preview the current timetable view of reservations	5	The client is able to click ‘print’ or “print preview”.	If print selected, option to directly print. If print preview selected, shows print preview interface.
I	Add a teacher and their contact information into the database	6	Client must input the necessary teacher information and click “Insert Teacher” to be added to the database, with error checking	Teacher and information are successfully added to the database with popup seen (successful or unsuccessful).
J	Delete a teacher and their contact information from the database	6	Client must input the necessary subject information and click “Delete Teacher” to be deleted the database, with error checking	Teacher and information are successfully deleted from the database with popup seen (successful or unsuccessful).
K	Add a subject into the database	7	Client must input the necessary subject details and click “Insert Subject” to be added to the database, with error checking	Subject and its subject details are successfully added to the database with popup seen (successful or unsuccessful).
L	Delete a subject from the database.	7	Client must input the necessary subject details and click “Delete Subject” to be deleted from the database, with error checking	Subject and its subject details are successfully deleted from the database with popup seen (successful or unsuccessful).

Versioning[1]

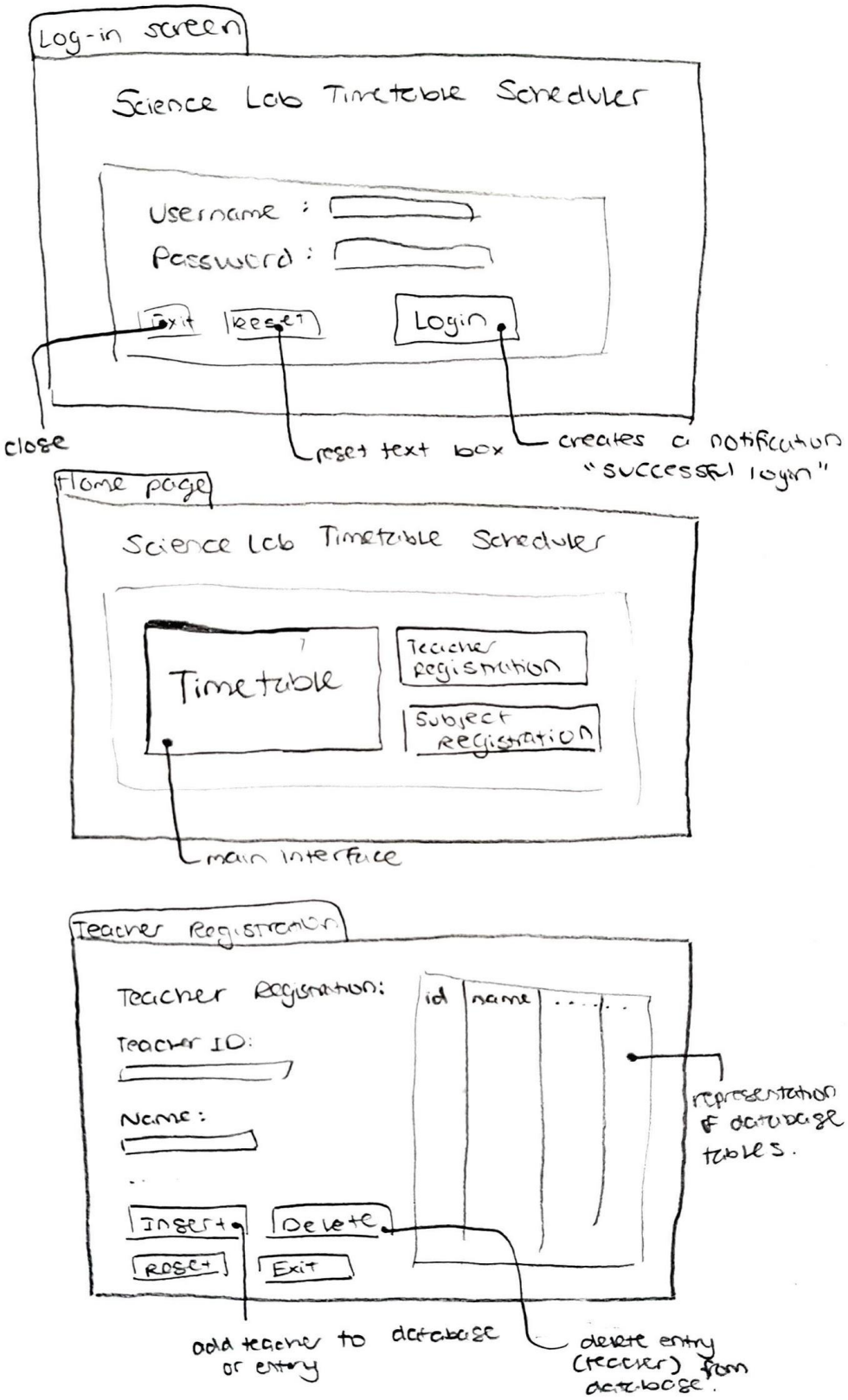


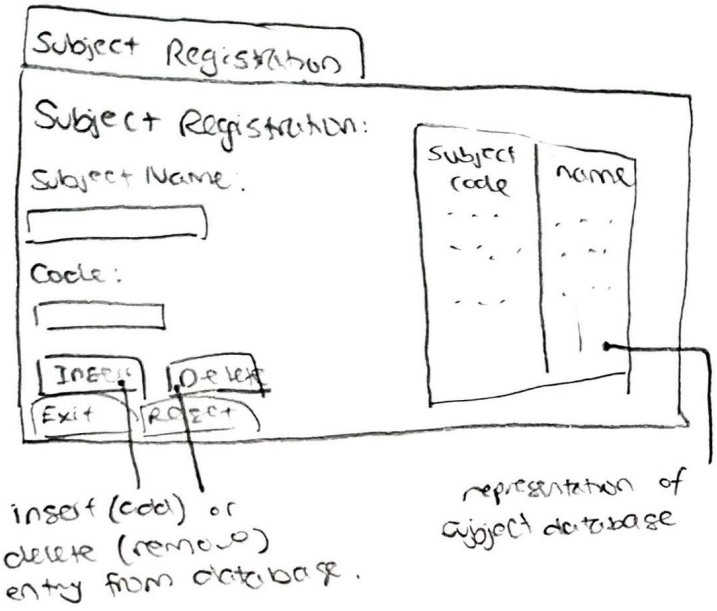
[1] *See the Record of Tasks (ROT) for a more detailed breakdown of the target completion dates. Additionally, Appendix 4 shows approval for the versions and their targeted dates of completion.*

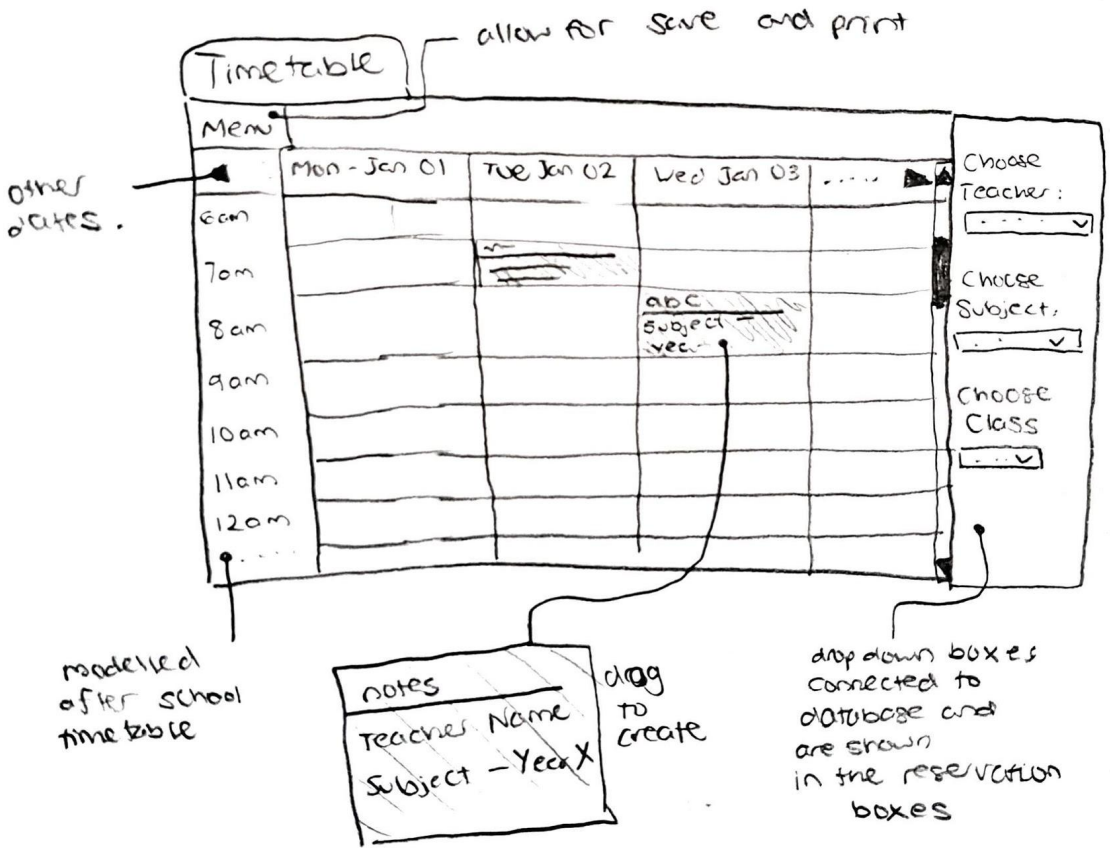
Structure Chart



Graphical Visualisations of Product

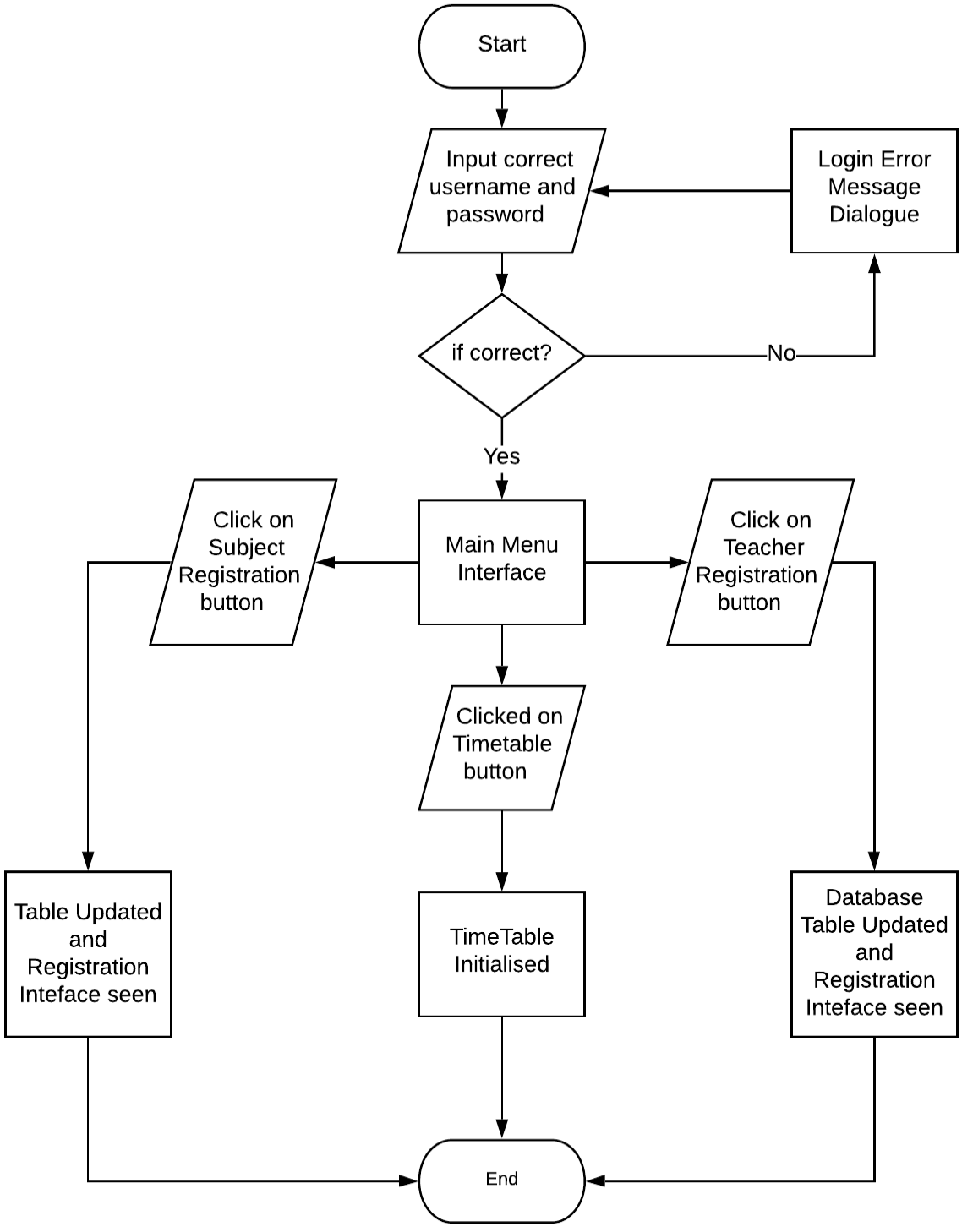



Subject Registration
Subject Registration:
Subject Name:
Code:
Insert
Delete
Exit
Reset
Subject code
name
insert (add) or delete (remove) entry from database.
representation of subject database

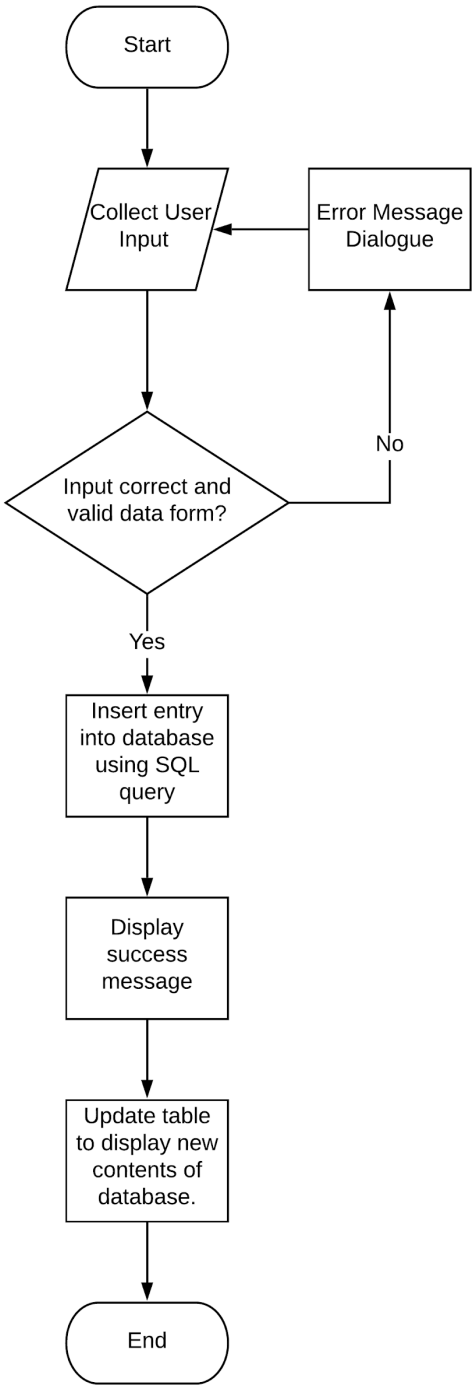

allow for save and print
Timetable
Menu
other dates.
Mon - Jan 01
Tue Jan 02
Wed Jan 03
6am
7am
8am
9am
10am
11am
12am
Choose Teacher:
Choose Subject:
Choose Class
modelled after school timetable
notes
Teacher Name
Subject - Yeex
drag to create
drop down boxes connected to database and are shown in the reservation boxes

Flowcharts

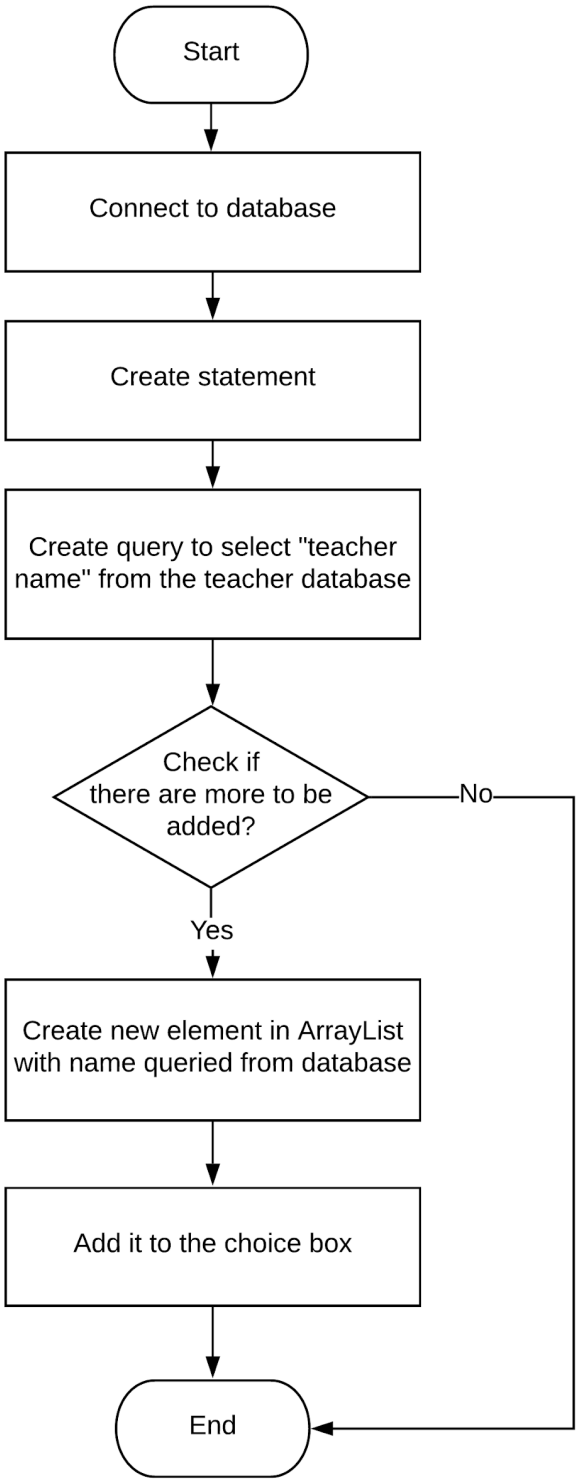
Client Login and Main Menu



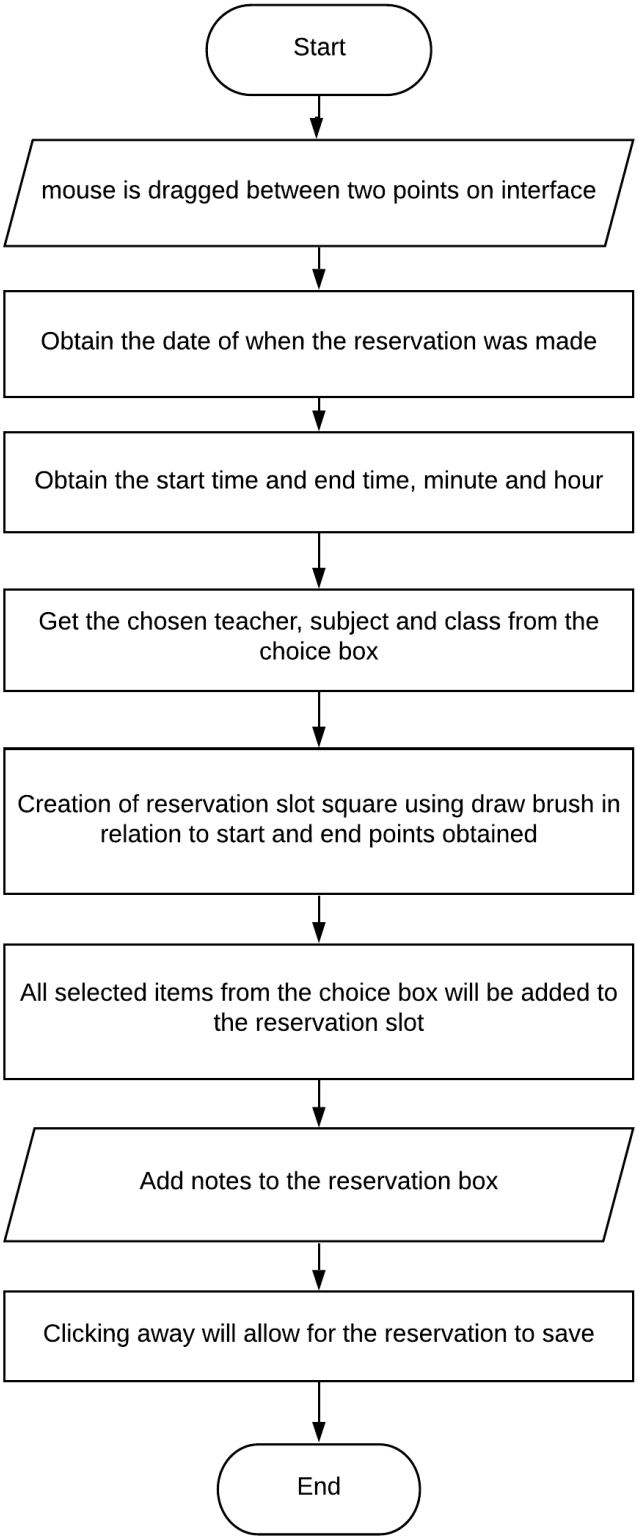
Subject/Teacher Registration



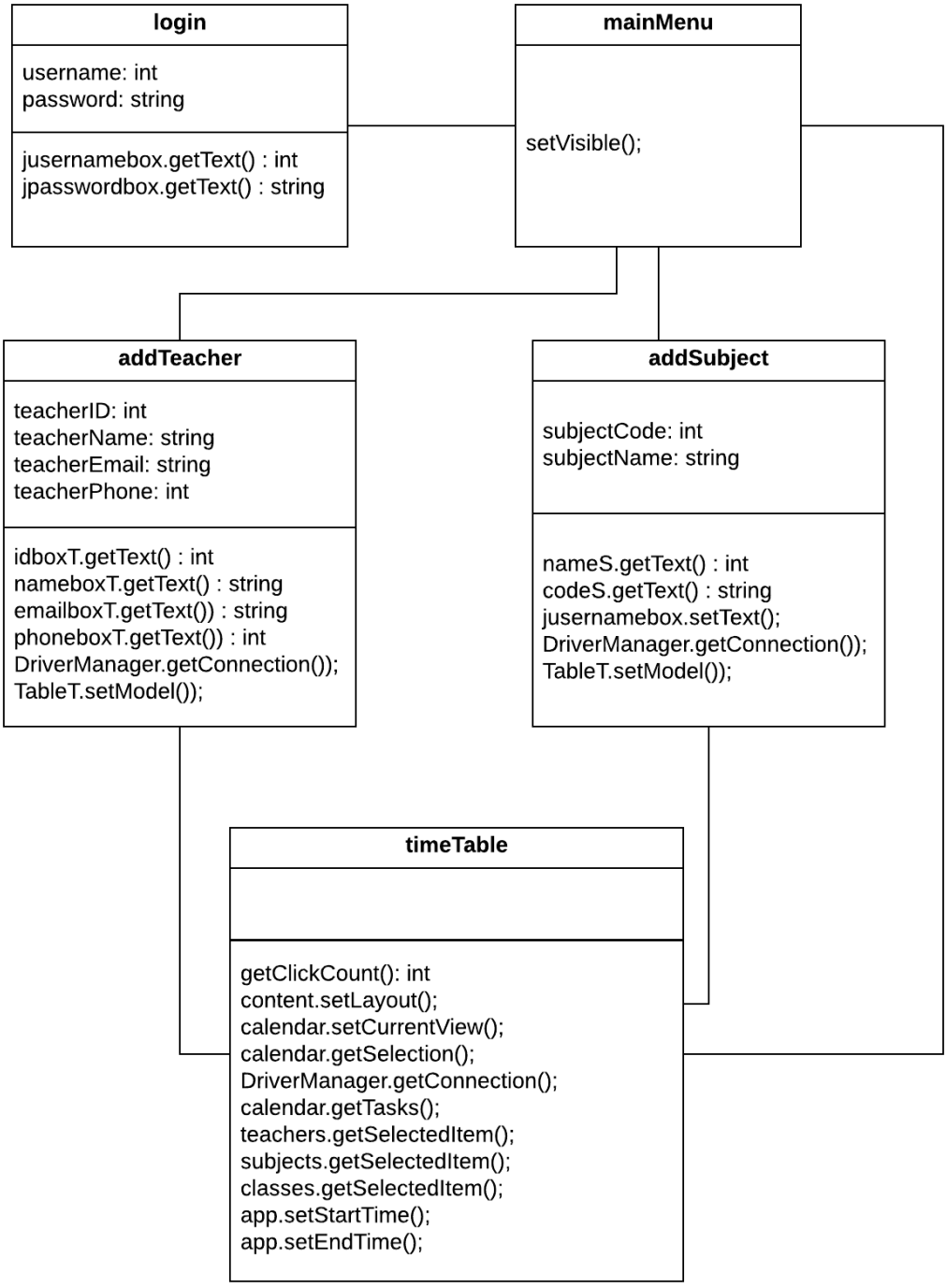
TimeTable: Update Choice Boxes (Teachers)



TimeTable: Create a Reservation



UML Diagrams



Database Entity-Relationship Diagram (ERD)

teacher	
Primary Key: TeacherID	Integer (15)
Name	Varchar (70)
Email	Varchar (70)
PhoneNumber	Integer (15)

subject	
Primary Key: subjectCode	Integer (10)
subjectName	Varchar (50)