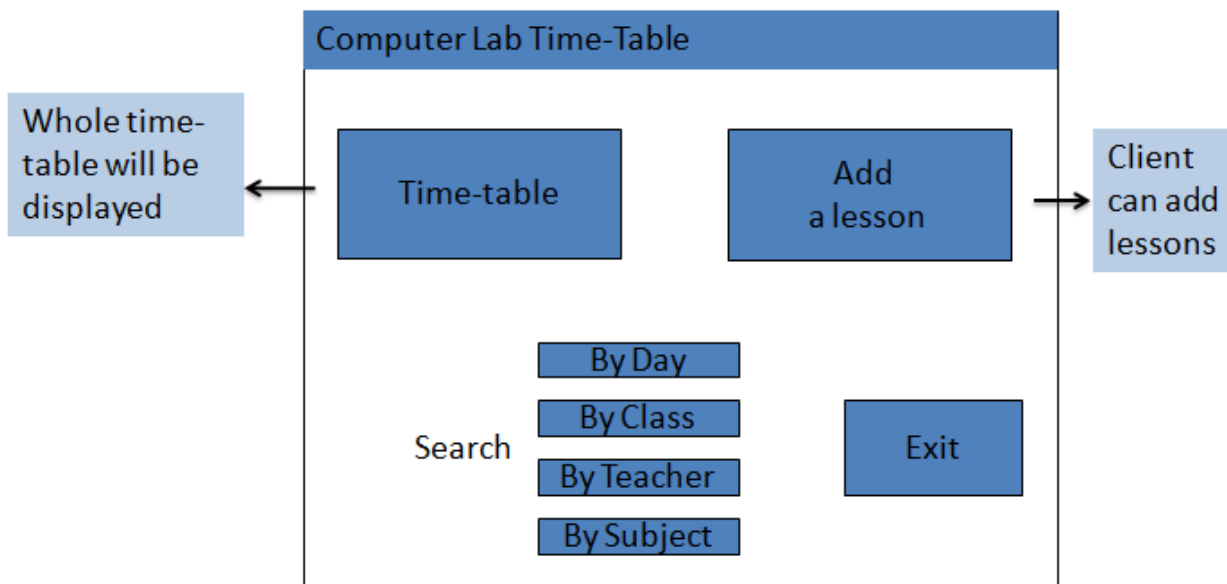
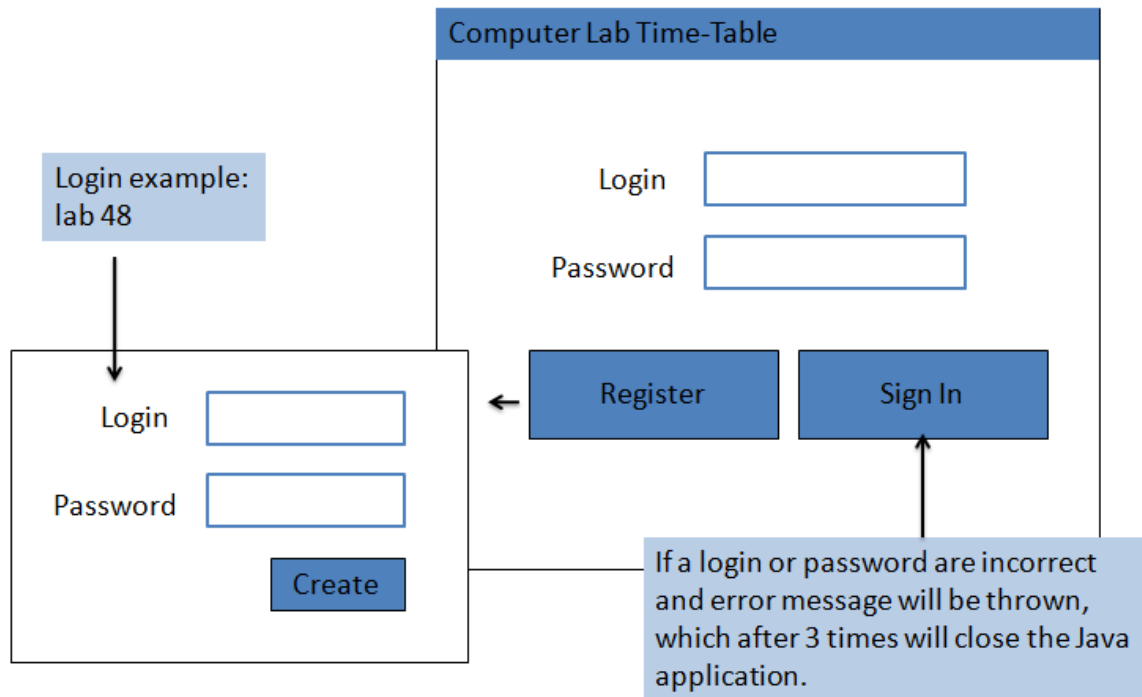


Criterion B: Design

Software Design:



Add a lesson

Teacher

Subject

Day

Period

Grade

Accept **Exit**

Time-Table → **Whole time-table will be displayed**

Source: Timetable was created by me after consultation with [REDACTED]

| Computer Lab Time-Table | | | | | | |
|-------------------------|--------------------------------|--------------------------------|---|-------------------------------|-------------------------------|--|
| Lesson | Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 1 | 09:00 - 09:45 | G6 - Technology [REDACTED] | G9 - Technology - room 58 [REDACTED] | G1 - ICT [REDACTED] | G6 - Technology [REDACTED] | XII - DPCS [REDACTED] |
| 2 | 09:50 - 10:35 | | G5 - ICT [REDACTED] | G8 - Technology [REDACTED] | G4 - ICT [REDACTED] | XII - DPCS [REDACTED] |
| 3 | 10:45 - 11:30 | G3 - ICT [REDACTED] | G2 - ICT (10:45-11:30) [REDACTED] | | | XI - DPCS [REDACTED] |
| 4 | 11:35 - 12:20 | G4 - ICT [REDACTED] | G1 - ICT (11:35-12:20) [REDACTED] | | | XI - DPCS [REDACTED] |
| 5 | 12:25 - 13:10 12:50 - 13:35 | XI - DPCS [REDACTED] | | | | G2 - ICT [REDACTED] oops:(- (1205-1240) |
| 6 | 13:15 - 14:00 13:40 - 14:25 | XI - DPCS [REDACTED] | G8 - T [REDACTED] | | | G5 - ICT [REDACTED] |
| 7 | 14:30 - 15:15 | G10 - Technology [REDACTED] | G9 - T [REDACTED] | | | G7 - Technology [REDACTED] |
| 8 | 15:20 - 16:05 | G10 - Technology [REDACTED] | | | | |

Edit Time-table

Teacher

Subject

Day

Period

Grade

Cancel **Change**

Exit

*note: if you want to delete the lesson simply clean all fields and push CHANGE button.

After pressing this button a windows will be opened that will contain all the changes that have been made in the timetable.

Search

Teacher Grade

Day Subject

Exit

Teacher

Lessons:

Monday – Lesson 3 – G3 – ICT
 Tuesday – Lesson 4 – G1 – ICT
 Wednesday – Lesson 1 – G1 – ICT
 Thursday – Lesson 4 – G3 – ICT

Close

When button "Teacher" is pressed, s timetable will be shown

History of Actions

Teacher Grade Day Period Subject

Changes made in the timetable:

– G4 – Monday – 4 – ICT
 – G4 – Wednesday – 5 – ICT
 – G3 – Monday – 5 – ICT

Edit Exit

Edit Time-table

Teacher

Subject

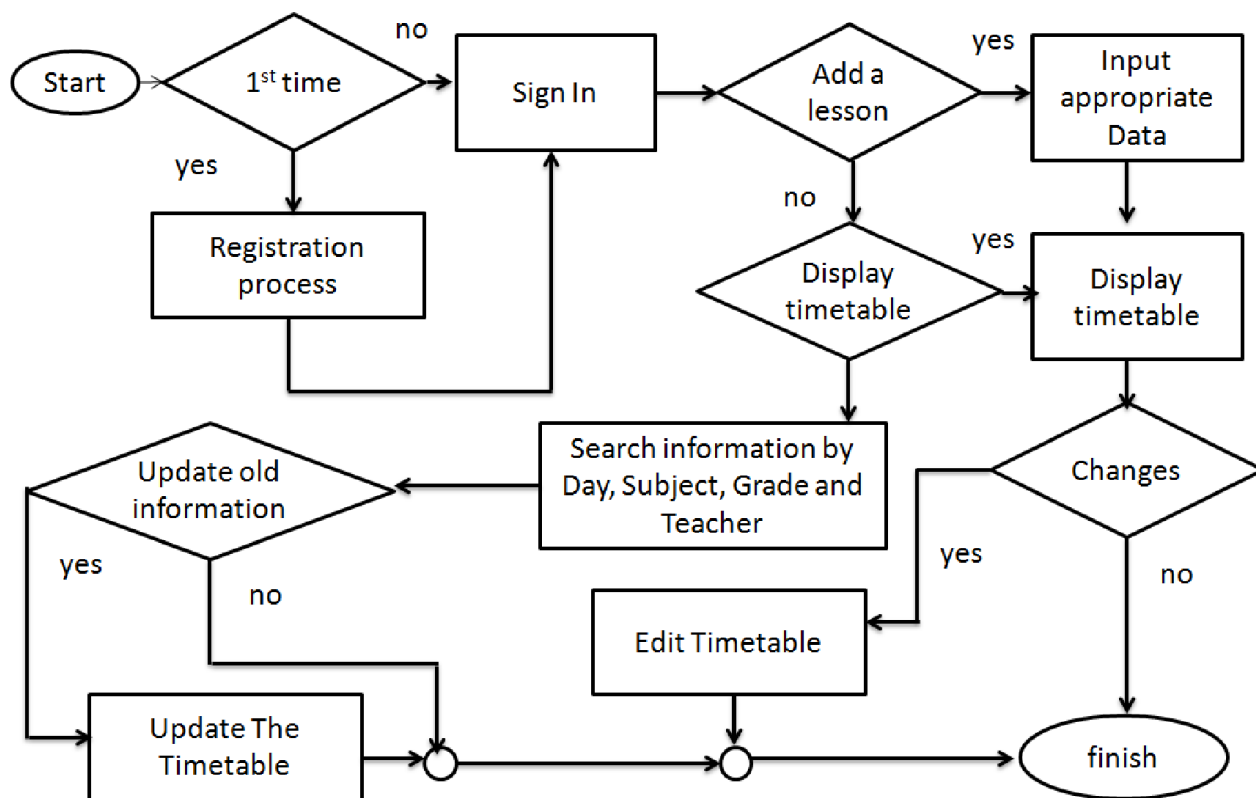
Day

Period

Grade

Cancel Change

Program's working plan (process description)



*Update information means from history recover old information

Input Data

| | |
|---|---|
| Data 1 – Add lesson Client writes data about the occupation of the room and who is occupying it and when. | Comment All the free spaces will be occupied by the inputted teacher, but if the period is already occupied, then an error message will be displayed, thus preventing the new data from being inputted. |
| Example Teacher: XX Subject: ICT Day: Monday Period: 4 Grade: G5 | Location A text file (containing all inputted data) (can be printed) |
| Data 2 Client writes Teacher/day/subject/class he wants to find in the time-table to create special list. | Location Special txt file will be created that contains these data (can be printed) |
| Example Input - XX Output: 1. Monday – Lesson 3 – G3 – ICT 2. Tuesday – Lesson 4 – G1 – ICT 3. Wednesday – Lesson 1 – G1 – ICT 4. Thursday – Lesson 4 – G3 - ICT | |
| Data 3 Client writes Login and password for registration; then uses this Login and Password to enter in the program | Location Special txt file will be created with two data: Login – lab 48 Password – XXXX3124 |
| example login: lab 48 password: XXXXXX | comment: For the security, the password will be altered in the program, for example if Client writes XXXXXX as his password, the password will be read, but it's data will be stored in the program differently and it will be done by changing the ASCII code of the characters by one, so if somebody tried to "hack" the password, he wouldn't have a chance to get the password. |

Output data

1. Time-table is displayed (timetable.txt file can be printed)
2. It will be possible to search information according to teacher, grade, day and subject; appropriate list will be displayed on the screen (can be printed)

Product Development Plan

My program is being written for only one person to use, that's why it doesn't have any sectional division.

| Choice – Function | Comments |
|--|--|
| The main menu 1. Login 1 week | In order to proceed further, the user has to login, using his personal account with his password. |
| The available functions 1. View the time-table 2. Add/edit/remove data to/in/from/ time-table 2 weeks | 1. By using this button, a time-table window will appear. 2. 1) Adding information to time-table, simply adds the information, but if the needed period, etc occupied and error windows will appear. 2) Editing information – is changing some of the data into the data. 3) Removing the data – “clear” the spaces in the time-table |
| The additional functions 1. Search function 2. History of Actions 2 weeks | 1. find the needed information in the time-table (it will be highlighted, so it will be easier to spot). 2. History of Actions – is simply an additional window that keeps the recent changes inside of it, thus if anything was added/changed/deleted the History of Actions will contain it in itself. 3. If client wants to recover some information – with edit button it would be possible from History |

| Action Test | Method of testing - result |
|--|---|
| Run the program and check if it works. | Click on the program icon and wait for it to run. |
| Check if registration process works correctly when client use the program first time | After running the program create login and password with Register button. Check if the login+password information will be written in the txt file according the password creating rule. |
| Check if login function works correctly | Enter information in the login and password section and enter the program as a moderator. |
| Check software functions: add and edit (delete) lessons | Click on button add (add a lesson), then edit it with the edit button and delete all the information |
| Check how the changes are applied in the txt document. | If file isn't created it will create it by itself for 1 st time. In the file time-table will be stored. |
| Any kind of information should have a possibility to be deleted. | Check that Deleted data shouldn't display in time-table. |
| Correct functionality of search button/section | It should give you a variety of search choices |
| Search option 1: Search by teacher | When a certain teacher's name is written in textField and button "Teacher" is pressed, the List will be created with appropriate information – teachers all lessons will be shown |
| Search option 2: Search by grade | When a certain grade's name is written in textField and button "Grade" is pressed, the List will be created with appropriate information – that grades lessons |
| Search option 3: Search by subject | When a certain subject's name is written in textField and button "Subject" is pressed, the List will be created with appropriate information – all lessons with this lesson |
| Search option 4: Search by day | When a certain day is written in textField and button "Day" is pressed, the List will be created with appropriate information – all lessons on that day |
| Test if History of Actions window shows all changes made during the process | Try to change the lessons in timetable and then check if all changes are listed in the listview frame |
| Test if it's possible to Update old information | Select one item from the History of Actions listview frame and press Edit button. If further changes will be fixed in the timetable – that means OK |

Words = 264