

COMPUTER PROGRAMMING 2 TERM PROJECT

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COURSE NAME	COMPUTER PROGRAMMING 2
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PROJECT TITLE	
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İçindekiler

1-	Ozet]
2-	Proje Konusu	1
3-	Proje İş Akış Şeması	2
	Proje Tasarım	
5-	Proje Çıktıları ve Başarı Ölçütleri	8
6-	Proje Süresince Yapılanlar	9
7-	Ek Açıklamalar	9
8-	Kaynakça	9



1- Özet

By using java swing and SQL database I create this (Experiment Tracking System), which contain two different types of usres.

The first user is (STUDENT) the student can create a new account by entering its information's, then he can login by its id and password.

Student profile contain 4 different fields

- 1- Student profile: here the student can see his information and add a picture to his profile
- 2- My experiments: in this field the students can see the experiments that he did before (and the feedback form the teacher if the teacher has sent a feedback).
- 3- View other Experiment: in the field the student can search about any experiment he wants to do and see the equipment to be used.
- 4- Add a new experiment: here the student can add a new experiment and send it with his conclusion and comments.

The second user is the TEACHER:

The Teacher main frame also contain many different fields:

- 1- Search about Student: the teacher ca search about any student and see their information
- 2- View students' experiments: the teacher can search by student id and see the experiments that have been sent from the student.
- 3- See details: the Teacher can see student's information in detail, like the comment.
- 4- Give Feedback: the teacher can write a feedback and Grade student's experiments and send them

After that when the student enters his experiments, he can see the feedback and grade.

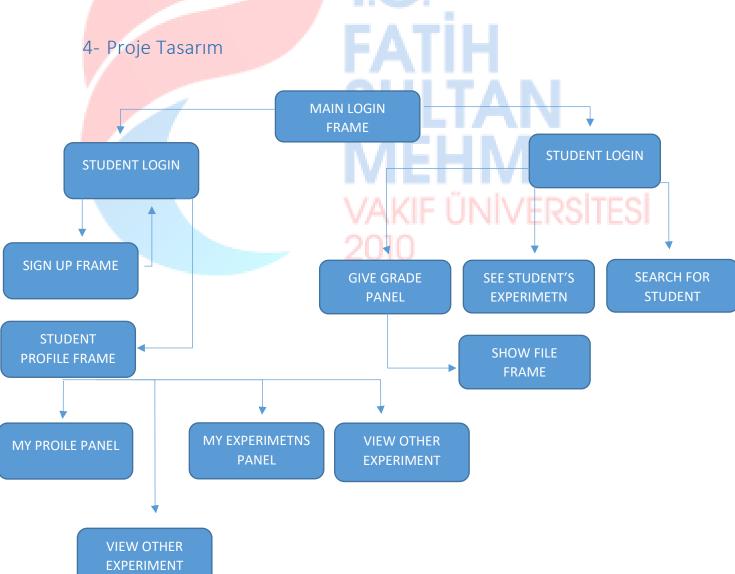
2- Proje Konusu

Deney Takip Sistemi

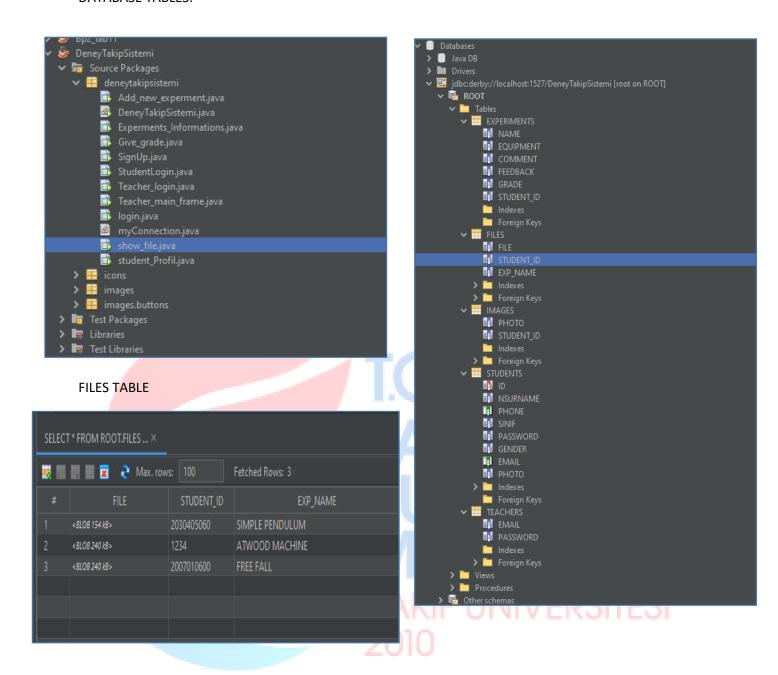


3- Proje İş Akış Şeması

İşin Tanımı	ARALIK							OCAK
	1-10	10- 15	15- 17	17- 22	22- 25	25- 27	27- 31	01
1. Literatür ve Örnek Taraması								
2 Disign database and table								
3 desigin the GUI								
4 writing code and functions								
Testing and handleing exceptions		1						
Final testing and adding the last touch		Ζ.						
6. Raporu hazırlama		1						



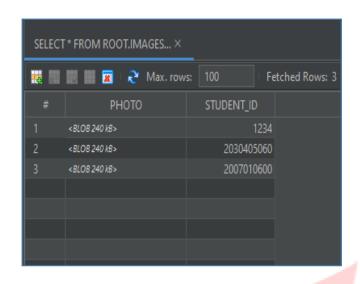
DATABASE TABLES:

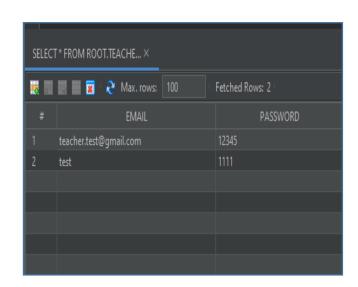


EXPERIMENTS TABLE

SELEC	SELECT* FROM ROOT.EXPERI ×								
ia i	Image: Image								
#	NAME	EQUIPMENT	COMMENT	FEEDBACK	GRADE	STUDENT_ID			
1	FRICTIONAL FORCE	Solid body,Metal road, Meter, Stopwatch.							
2	ATWOOD MACHINE	Pulley system, Hanger, Rope, Various object	<null></null>	<null></null>		<null></null>			
3	FREE FALL	Meter, Stopwatch, Plastic ball.	«NULL»	<null></null>		<null></null>			
4	LENGTH MEASUREMENTS	Vernier caliper, Micrometer, Cylinders of vari	<null></null>	<null></null>		<null></null>			
5	SIMPLE PENDULUM	Rope, Solid body with known mass, Stopwat							
6	FREE FALL	<null></null>	IT WAS VERY FUN I REALLY ENJOY IT.	your are so smart	88	2007010600			

IMAGES TABLE TEACHERS TABLE





STUDENTS TABLE

SELECT * FROM ROOT.STUDEN ×								
jdbc:derby://localhost:1527/DeneyTakipSistemi [root on ROOT]								
		PHONE	SINIF	PASSWORD	GENDER	EMAIL	РНОТО	
1 SELEC	1 SELECT * FROM ROOT.STUDENTS FETCH FIRST 100 ROWS ONLY		THEIRD	12345	Male	hassan123@gmail.com	<null></null>	
	1234 test	1111		1234	male	test@gmail.com	<null></null>	
	2030405060 hamza ahmedi	055-2223334	SECOND	123456	Male	hamza123@gmail.com	<null></null>	

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GUI DESIGN

MAIN FRAME STUDENT LOG IN FRAME

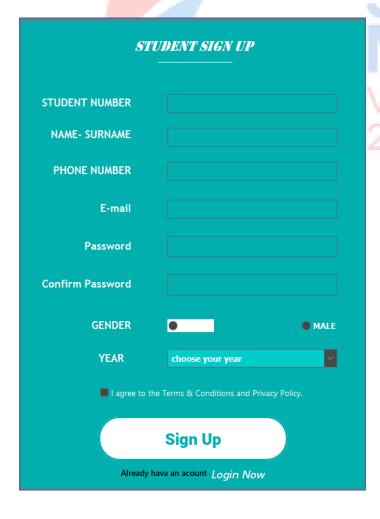


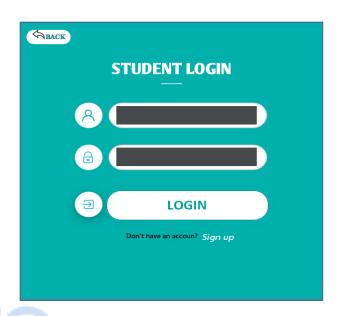
SIGN UP FRAME FOR STUDENT

BY Entering all the information below

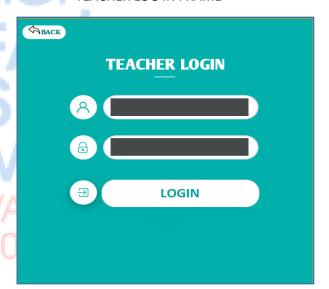
With the conditions in the regex,

The student can create an account.

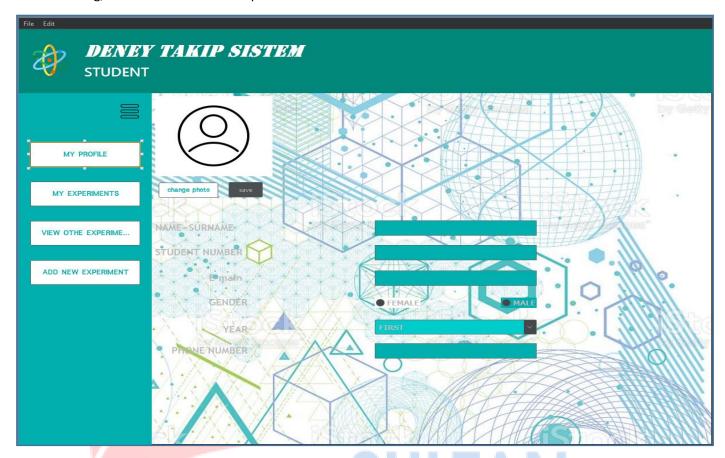




TEACHER LOG IN FRAME

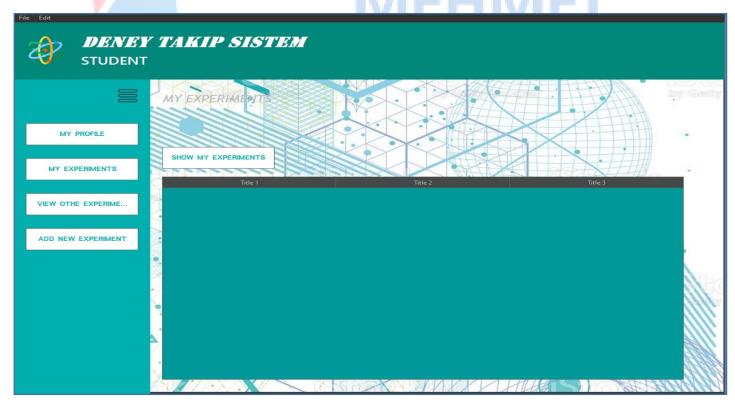


Here the student can see his information's, and can chooser a photo to his profile by file chooser dialog, save button to save the photo in database.



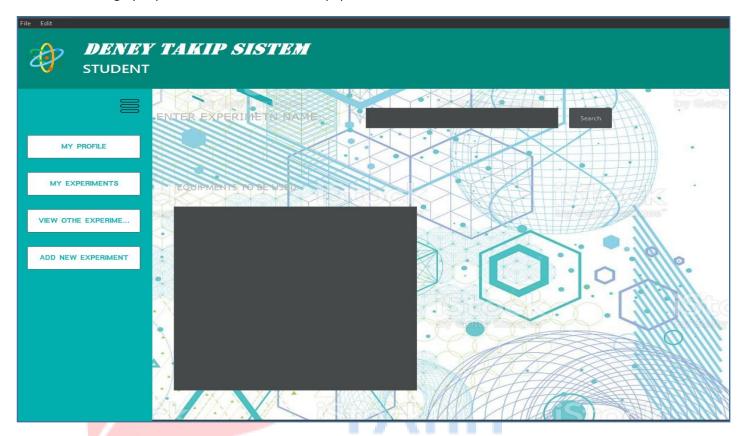
MY EXPERIMENTS FRAME

By clicking (show my experiments) all the experiments that the student did will be shown in the table below the its grade and feedback if it was there.

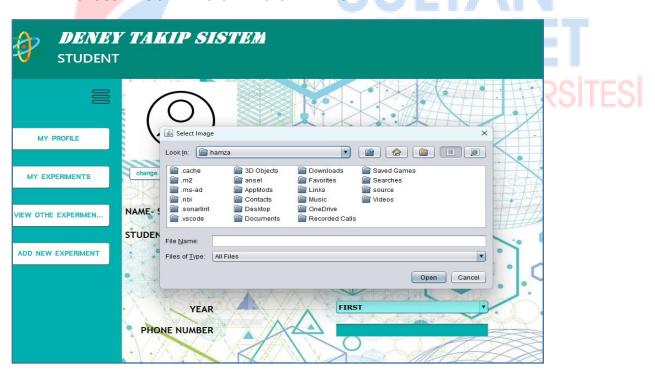


SEARCHING FOR OTHER EXPERIMENT TO DO:

Searching by experiment name to see the equipment to be used.

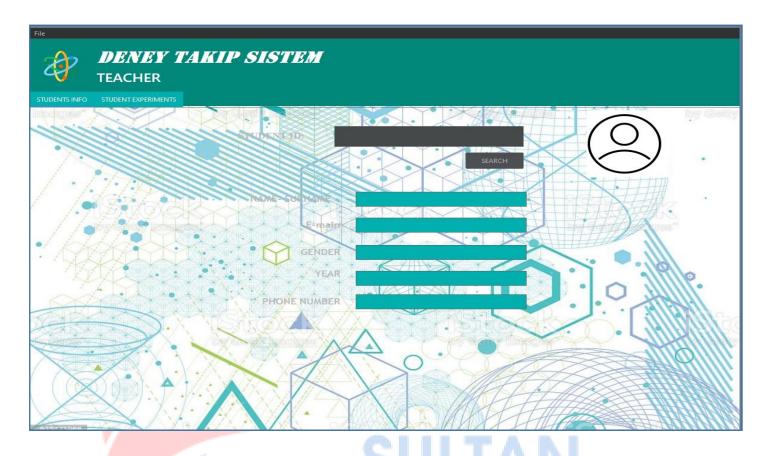


FILECHOOSER TO SET A PICTURE IN STUDENT PROFILE



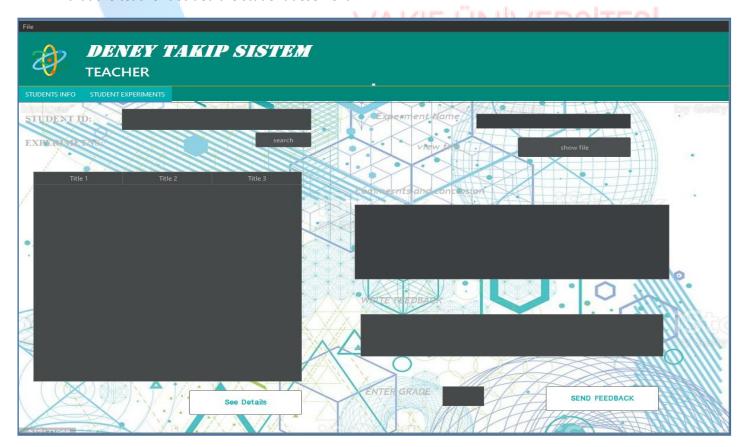
TEACHER MAIN FRAME: SEARCHING FOR STUDENT TO SEE INFORMATIONS

The teacher will enter any student number to see his info.



SEARFCHING FOR STUDENT'S EXPERIMENTS TO GRADE AND GIVE FEEDBACK

The teacher will enter student number to see his experiments and choose an experiment to see the details like file and comments, the writing a feedback in the text area and send it with the grade that the teacher decided the student deserve it.



5- Proje Çıktıları ve Başarı Ölçütleri

- 1- The program is working safety and speed.
- 2- The UI if the program has been designed to look perfect and comfortable for the user.
- 3- The data transferred between the frames easily.
- 4- The data saved in database without any problems.

6- Proje Süresince Yapılanlar

This program took me a lot of time to finish, but I learned a lot while working on it.

- 1- I started by drawing the first simple UI on a piece of paper, then making that possible on the NetBeans,
- 2- I created the structure of the program without any extra design.
- 3- I started with the design and I wanted it to look good, so it took more then 5 days to learn how to do .
- 4- I started writing the code and it took about 5 days too.
- 5- Every time I add a new thing or write a new function, I test the program from the beginning.

7- Ek Açıklamalar

While working on this program I faced some problem and it took sometime to learn how to fix,

- 1- Filechooser: I get an error every time I tried to save a file in database, then I changed the type of the file while saving it, that fixed the problem.
- 2- I faced some errors when I want to transfer data from frame to other.

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8- Kaynakça

- 1- The Knowlge I have learned in the course and the lab lechers.
- 2- https://www.google.com/
- 3- https://stackoverflow.com/
- 4- https://www.geeksforgeeks.org/
- 5- https://www.youtube.com/ and specially the Indian teachers the explain a lot to me.
- 6- https://github.com/
- 7- https://www.programiz.com/
- 8- https://docs.oracle.com/javase/8/docs/api/java/lang/reflect/Method.html