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# MINISTRY FOR EDUCATION AND SCIENCE OF RUSSIA

# SAINT PETERSBURG ELECTROTECHNICAL UNIVERSITY «LETI»

# **Application for Delivery E-bill**

PROJECT REPORT

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#

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# 1. Project Subject and Description

Development is carried out on the basis of the requirements for the course work in the discipline "Software Engineering".

Full name of the project : "Application for Delivery E-bill"

Short name of the program (nick-name, 4-5 characters) \_\_\_\_\_ E-bill

*In this project we developed an android application for the Delivery boy.* 

Using this application delivery boy first do registration, after the Registration Delivery boy will get an email with confirmation of the account. When Delivery boy confirm the account using email after that he can log in.

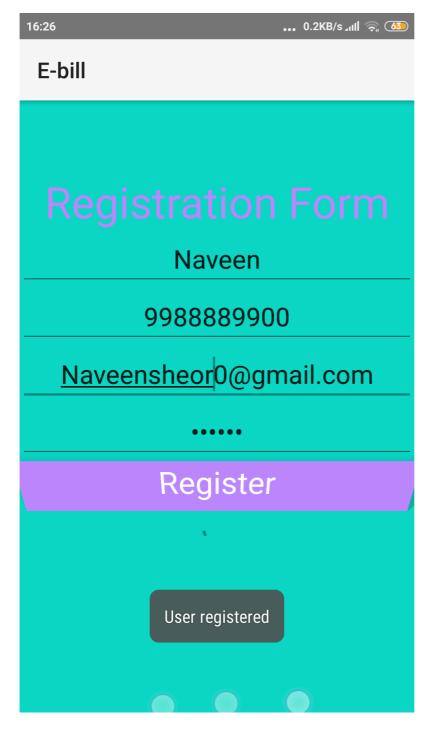
After Login Delivery boy will get E-bill of the ordered items with Name, contact no and Address.

After the delivery, delivery boy click on the Delivered button and in our database we shall get the confirmation of the Delivery with customer Name and contact number.

The software product is intended to development of android application for the Delivery E-bill. Using this application Delivery boy will not need any bill slip on paper .So we can save our tree as we know papers are prepared with trees.

#### 2. RESULTS OF THE PROJECT

Delivery boy Registration:



For Registration User will Provide:-

Name

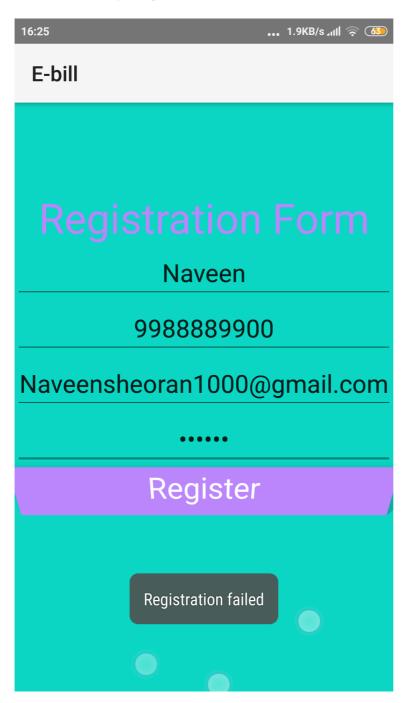
Mobile number

# Email id

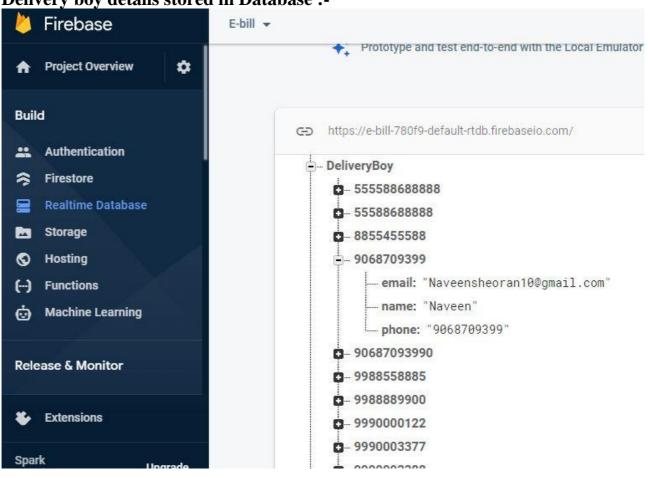
#### Password

After successfully registration all user data stored in Firebase Database

# If User already Registered:



**Delivery boy details stored in Database:-**



# First time log in:



# **Email authentication:**

Verify your email for project-834025028227 > Inbox x

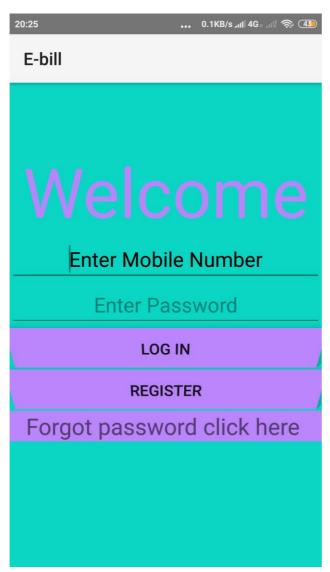


# After Email verified:

# Your email has been verified You can now sign in with your new account

# If forgot password:

# Click on the forgot password link:



# After click on forgot password link new activity will open:



# Reset password email

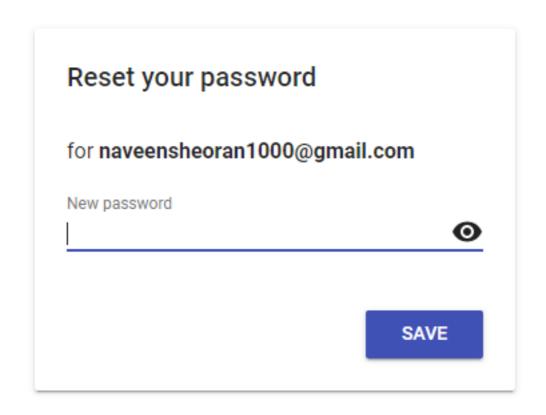
Reset your password for project-834025028227 Inbox x

noreply@e-bill-780f9.firebaseapp.com
to me 
Hello,
Follow this link to reset your project-834025028227 password for your naveensheoran1000@gmail.com account.

https://e-bill-780f9.firebaseapp.com/\_/auth/action?mode=resetPassword&oobCode=s296cJf\_Js3cXCmOgFjaoc-sryojT6dSHvB2Fqqt9CcAAAF5lgcLYA&apikAlzaSyCHNSjDbxwcu9boa8Qo6qjjKB56-SHbgF0&lang=en

If you didn't ask to reset your password, you can ignore this email.

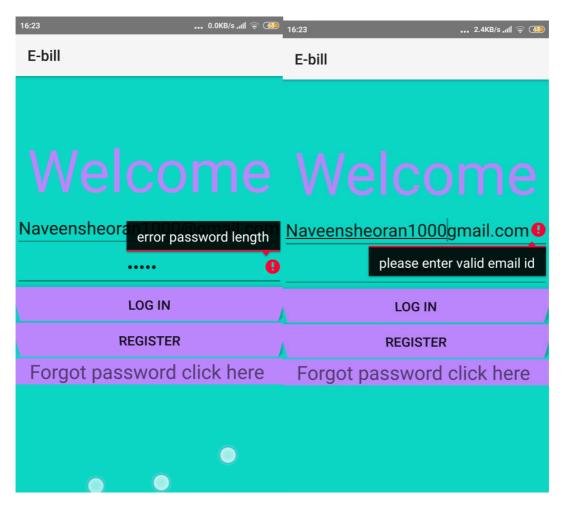
Thanks,
Your project-834025028227 team



# Password changed

You can now sign in with your new password

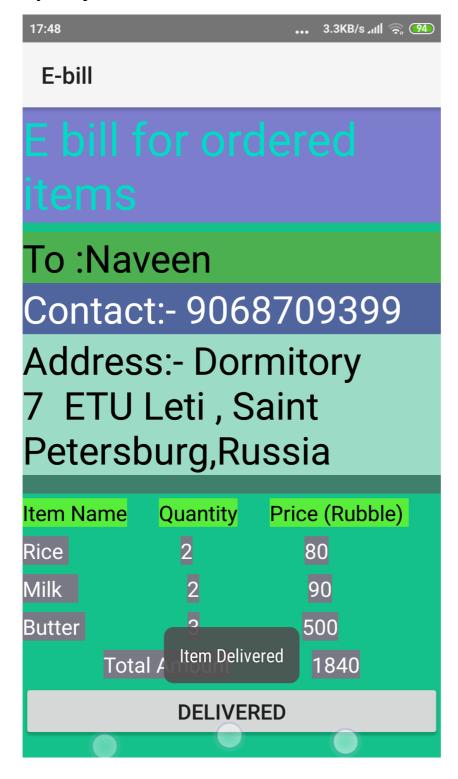
# LOG IN CREDENTIALS CHECKING:



# After Successful log in:



# **Delivery Confirmation on Click the DELIVERED BUTTON:**



# **CONFIRMATION IN DATABASE:**

https://e-bill-780f9-default-rtdb.firebaseio.com/

e-bill-780f9-default-rtdb

Delivery
"Contact:- 9068709399": "To :Naveen

# **Key milstones:-**

Table 1. Key milestones

№	Start date /	End date	Description
1	05.02.21	03.03.21	SOW developed, reviewed and signed
2	03.03.21	18.03.21	Project Management Plan(PMP)
3	18.03.21	22.04.21	Project Implementation – Phase 1
	31.03.21	14.04.21	Authentication ,Registration
	14.04.21	22.04.21	Real time Database
4	22.04.21	26.05.21	Project Implementation – Phase 2
	23.04.21	07.05.21	Forgot password ,new Design
	07.05.21	26.05.21	Getting bill format , Delivery confirmation
5	26.05.21	02.06.21	Course project completed, presentation and final report prepared for defense

# ACTUAL DATES OF PROJECT IMPLEMENTATION

	Actual		
<task milestone=""></task>	DD-MM-YYYY		
Kick of Meeting	27-02-21		
SOW	27-02-21		
PMP	24-03-21		
Authentication Registration	14-04-21		
Real time Database	22-04-21		
Email Verification	06-05-21		
Bill Format	14-05-21		
Delivery Confirmation	21-05-21		

# Configuration and change management :-

Version control system:-

For our project we used Github to store the code and other documents.

<sup>&</sup>quot;link <a href="https://github.com/naveenpardeep/Delivery-boy-e-bill">https://github.com/naveenpardeep/Delivery-boy-e-bill</a> "

# **FINAL PROJECT METRICS:**

Reference: T04\_E-Bill\_Product\_Metrics\_2021

Link " <a href="https://github.com/naveenpardeep/Delivery-boy-e-">https://github.com/naveenpardeep/Delivery-boy-e-</a>

bill/blob/main/Files%20Doc/T04\_E-

Bill Product Metrics 2021.xls "

# **Project risks**

# Our team created a risk register with following details:-

# Risk Register

Project name: Common project risks

ID	Date raised	Risk description	Likelihood	Impact if	Severity	Owner	Mitigating action
			of the risk	the risk	Rating	Person who	Actions to mitigate the risk e.g. reduce
			occuring	occurs	based on	will manage	the likelihood.
					impact &	the risk.	
					likelihood.		
1	[enter date]	Project purpose and need is not well-	Medium	High	High	Project	Complete a business case if not already
		defined.				Sponsor	provided and ensure purpose is well
							defined on Project Charter and PID.
2	[enter date]	Project design and deliverable	Low	High	High	Project	Define the scope in detail via design
		definition is incomplete.				Sponsor	workshops with input from subject
							matter experts.
3	[enter date]	Project schedule is not clearly	Low	Medium	Medium	Project	Hold scheduling workshops with the
		defined or understood				Manager	project team so they understand the
							plan and likelihood fo missed tasks is
							reduced.
_		l				+	l

Personal results:
Naveen:-
Coding in java
XML design
Email verification
Userlogin method
Checked correct mail id format, mobile etc
Authentication
E-bill
Delivery Confirmation
Chubchik Alexander:-
Usability testing
Functional testing
Debug reports
Password change method

#### 6. Lessons learned:-

During this project we learned a lots of new technologies in the field of Software engineering subject and in android development.

In the Software engineering subject we learned how to work in team which is most important part while working in any IT company.

We learned how to manage the work within deadline. Most important learned lesson was the test plans and coordination of the team members in the project.

Worked in a proper manner, with Key Milestones, and communications with the project team, Traced the progress of the project.

In software engineering lab sessions we learned how we can detect the faces of object using machine learning like cat and dog.

In this project we learned different new credential checking of the user's input data. Authentication of the user's details, Learned new java coding with Firebase. Like how we can store the data in the Firebase Database in real time. We Learned how we can retrieve the data from the Firebase database using the android coding in Java. We learned different style of XML design .Like how we can design the user interface with the different Layout , Linear Layout , Relative Layout and many others. Different testing techniques for debugging the android application.

During the project we learned that how we can store the project codes and files on Github with all team members. Using Github how to send pull request and commit the request. Using this we can access our project's details anywhere and without loss of the data if any team member's System crashed or any fault then team member can access stored data on Github.

# **Summary**

During the Software Engineering classes we developed android application for the Delivery Boy . In future we want to add some more functionality in this application like real time tracking of the Delivery boy. We want to add some more function like Customers also can use the same application for the order of food items .

# Acknowledgement

I would like to express my deepest appreciation to all those who provided me the possibility to complete this report. I wish to express my sincere gratitude to my supervisor **Dr. Evgeny Philippov**, for his patience, interest, insightful comments, practical advice and unceasing ideas that have always helped me enormously in my project and writing of this project report. Without his support and guidance, this project would not have been possible. I could not have imagined having a better supervisor in my study.