

G1 Rules Expert

Implementation Phase

END DATE :-

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SUBMITTED TO :-

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Specification Vs Realization.....

These are features that we mentioned in the specification phase :-

- **See his/her profile**

In the menu bar there is option to see the profile. So, user can see his/her profile as well as can edit the profile by changing date of birth , email id and etc.

- **See quiz**

User can see the quiz. Basically, there are four quiz's based on easy and hard questions. Every quiz have 20 questions.

- **Sign board**

In the quiz, there are different sign boards, so that user can know about the meaning of different sign boards.

- **FAQ**

Also, Frequently answers questions are there. So, User can know more about the app by reading these questions.

□ Challenge bank

There will be also a challenge bank. If user don't have enough time enough time to complete a quiz then they can choose challenge bank. In this 4 questions are available each time randomly 4 questions come in the challenge bank.

□ Score page

Moreover, user can see their performance on the score board. They can see the obtained marks out of total marks.

□ Change theme (light & dark mode)

Users can change the theme, like dark or light mode according to their interest.

□ Localization

To make better connection with customers, this app is providing the features of localization, so that User can select the language for quiz like Punjabi, English and French.

Earlier, we were thinking about adding more languages, but then we decided to add only those languages which are most commonly spoken by the people living in Ontario.

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Tools and Technology...

□ Tools

- Android SDK
- Google Translator
- Firebase

□ Technology

- Android
- Room database
- Realtime database

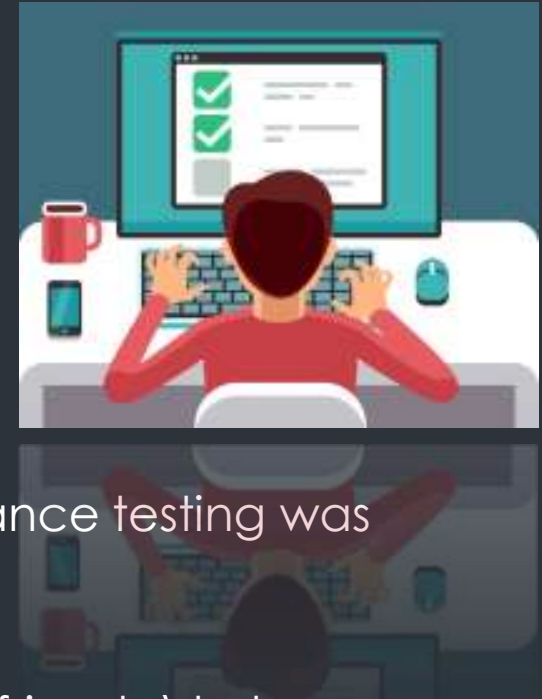


Testing



- **Performed Manual Testing** –
Every day the team member working on the project delivered a logically completed product to the each other and they would run their test cases on the build.
- Regression was a challenge because in each build each member had to ensure that previously completed items were still working.
- We used JIRA to file and track defects.

Beta Testing-



- **Beta Testing** – After this initial setup, user acceptance testing was conducted .
- This was achieved by asking the beta users (our friends) to browse every single page within the mobile app.
- This ensured that every bug was fixed before the app was released.
- And that the app captured all necessary features and functionality.

Performance Testing

- ❑ **Performance Testing –**
- ❑ The functionality, performance
- ❑ stability,
- ❑ responsiveness,
- ❑ resource usage,
- ❑ stability parameters as per standards) and
- ❑ user interface for the delivered build was thoroughly tested.





Experimental and Validation Results

- ❑ The application is working correctly functionality wise
- ❑ The user is successfully able to register or login into the application
- ❑ But to perform the quiz , the user is required to have internet connection after he/she login in into the application.
- ❑ User can navigate to different pages of the application by clicking menu icon
- ❑ Navigation Drawer is provided
- ❑ After that, the user can either perform the quizzes or can opt for the challenge bank if there is shortage of time,

Implementation...

□ Applications screen layouts:-

Splash screen



Front Screen



Choose language



Register page



A mobile app registration screen with a light gray background and a black top bar. It features a back arrow in the top left. The title "CREATE AN ACCOUNT" is centered. Below it are two input fields: "Enter Full Name" with a pencil icon and "Enter EmailID" with an envelope icon. A "Choose Gender" section has three radio buttons for "Male", "Female", and "Other". A "Select Your Age" section displays three date options: "21 Jul 2019", "22 Aug 2020", and "23 Sep 2021". At the bottom, there is a Canadian flag icon, the text "CA +1", and a phone number input field with a telephone icon. The bottom of the screen shows standard Android navigation icons.

←

CREATE AN ACCOUNT

✎ Enter Full Name

✉ Enter EmailID

Choose Gender

☐ Male ☐ Female ☐ Other

Select Your Age

21 Jul 2019


22 Aug 2020

23 Sep 2021

🇨🇦 CA +1

☎ Enter Phone Number

Login page



A mobile app login screen with a light gray background and a black top bar. It features a back arrow in the top left. The title "LOG IN" is centered. Below it is a Canadian flag icon, the text "CA +1", and a phone number input field with a telephone icon. Below that is a password input field with a lock icon and a toggle eye icon. A "FORGOT PASSWORD" link is centered below the password field. A black "LOG IN" button is centered below the link. At the bottom, a red "CREATE AN ACCOUNT" link is centered. The bottom of the screen shows standard Android navigation icons.

←

LOG IN

🇨🇦 CA +1

☎ Enter Phone Number

🔒 Enter Password 🔍

FORGOT PASSWORD

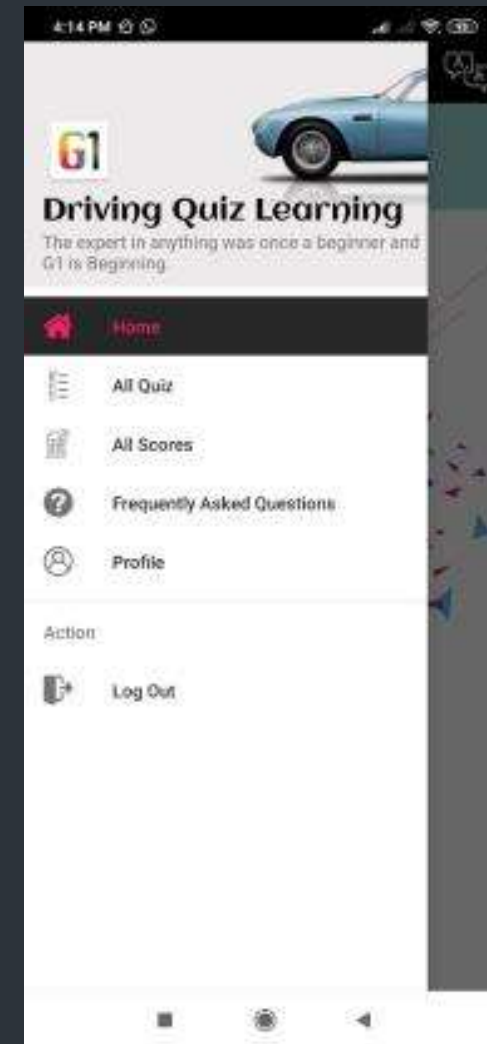
LOG IN

CREATE AN ACCOUNT

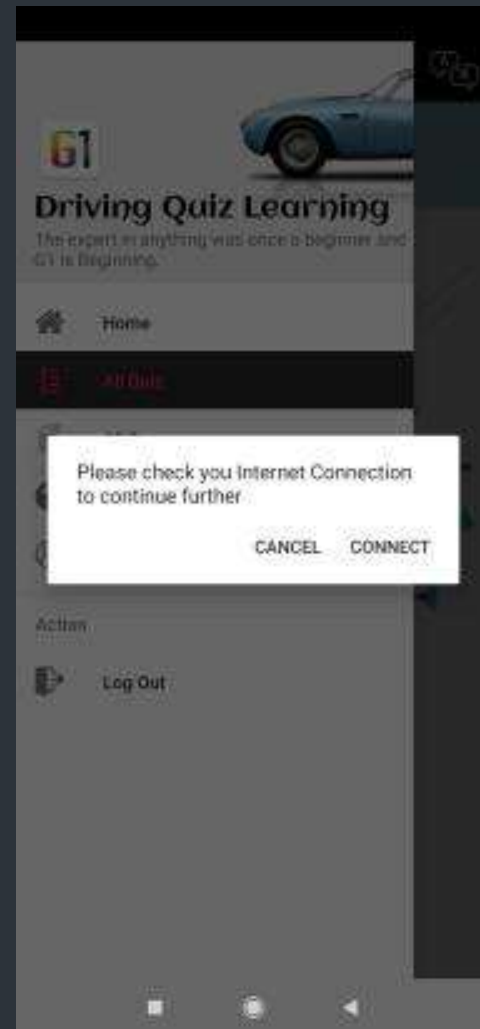
Welcome Screen



Menu



Connect to WIFI alert



All Quiz



Sign Boards



Profile page

A screenshot of a mobile application's 'UPDATE YOUR ACCOUNT' screen. The screen has a teal header with a back arrow and the title 'UPDATE YOUR ACCOUNT'. Below the header, there are several input fields: 'Enter Full Name' with the text 'kiranpal singh bedi', 'Enter Email' with 'karan@gmail.com', 'Choose Gender' with radio buttons for 'Male' (selected), 'Female', and 'Other', 'Select Your Age' with a date picker showing '11 Jul 1990', '12 Aug 1991', and '13 Sep 1992', a country selection showing 'CA +1' with a Canadian flag, 'Enter Phone Number' with '+14379878110', and 'Enter Password' with a masked field. The background of the form is a light blue map of Ontario.

← UPDATE YOUR ACCOUNT

Enter Full Name
kiranpal singh bedi

Enter Email
karan@gmail.com

Choose Gender
☒ Male ☐ Female ☐ Other

Select Your Age
11 Jul 1990
12 Aug 1991
13 Sep 1992

CA +1

Enter Phone Number
+14379878110

Enter Password

FAQ

A screenshot of a mobile application's 'FREQUENTLY ASKED QUESTIONS' screen. The screen has a teal header with a back arrow and the title 'FREQUENTLY ASKED QUESTIONS'. Below the header, there are three questions, each with a numbered title in a colored box and a detailed answer. The first question is '1. What is a G1 license?' with a pink header. The second is '2. Are there any specific documents I should have when I go to take my written test in Ontario?' with an orange header. The third is '3. How much does a G1 license cost?' with a pink header. The background is white.

← FREQUENTLY ASKED QUESTIONS

1. What is a G1 license?

G1 is the first step in Ontario's graduated licensing system. It allows you to practice your driving skills with a supervising licensed driver who has held a G license for at least 4 years. They must sit in the front seat with you at all times.

2. Are there any specific documents I should have when I go to take my written test in Ontario?

Yes. When you go in to apply for your license, you are required to have documents that show your:

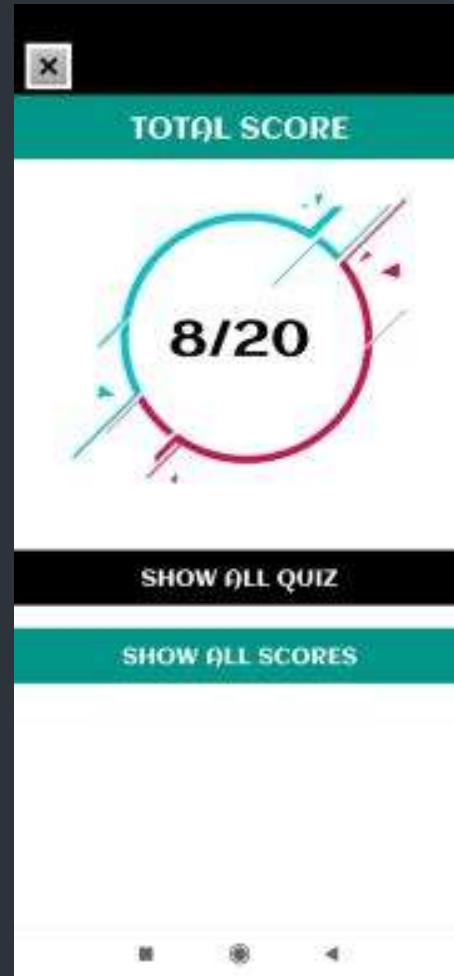
- Legal Name
- Date of Birth
- Original Signature

These can be documents such as a Passport (Canadian or Foreign), Canadian citizenship card with photo, Ontario Photo card, Employee / Student Authorization Form, or etc.

3. How much does a G1 license cost?

The G1 license package costs \$158.25. This includes \$15.75 for the knowledge test, \$52.50 for the Class G2 Road Test, and \$90.00 for the

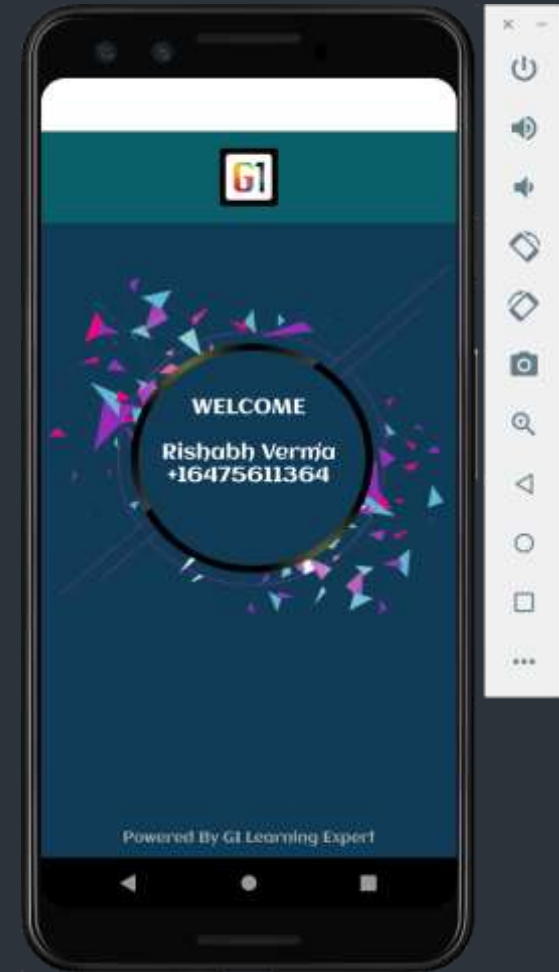
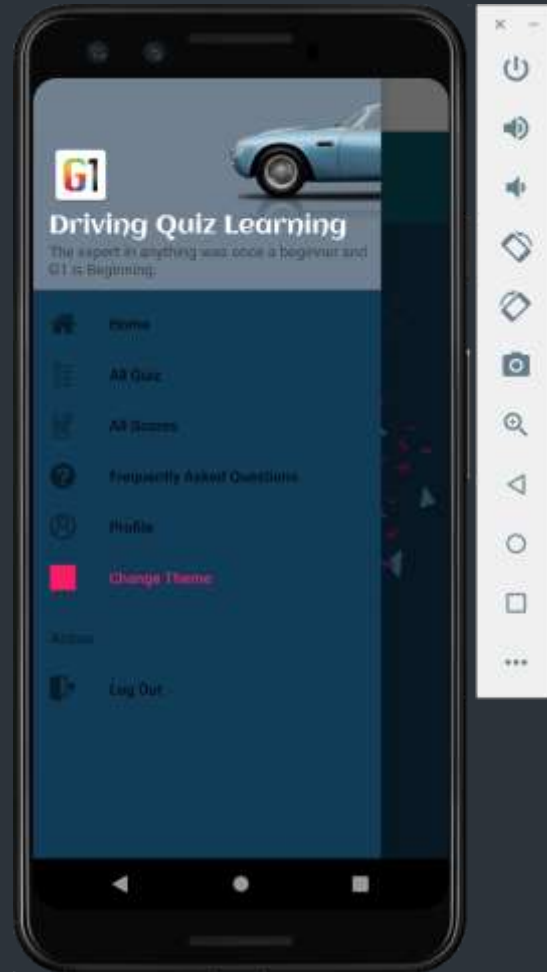
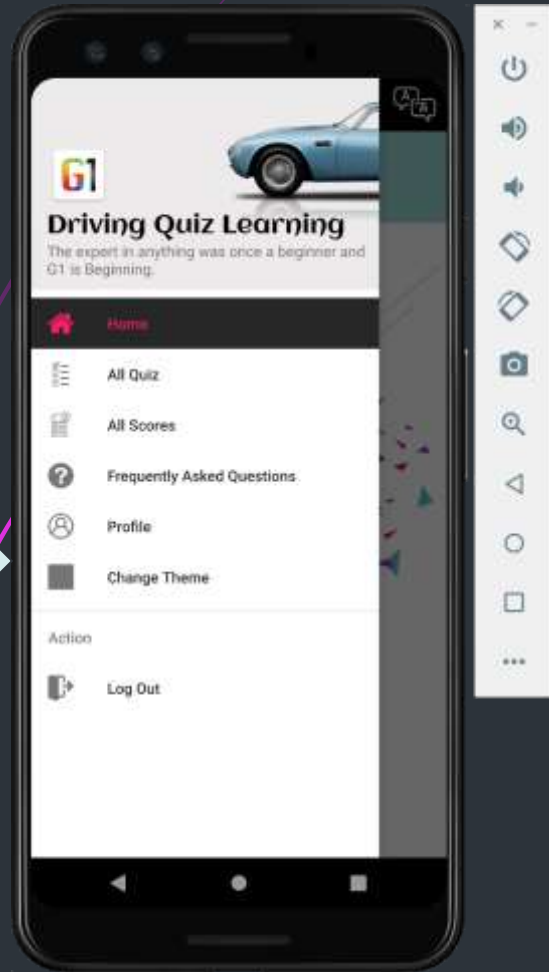
Score board



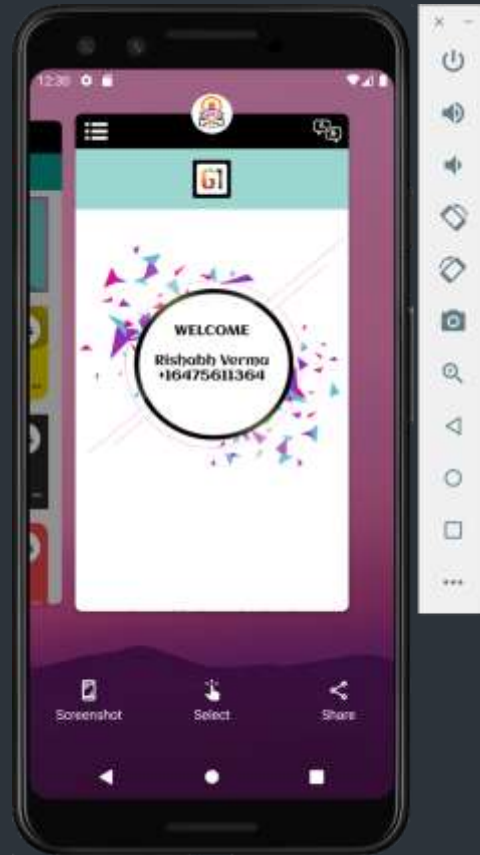
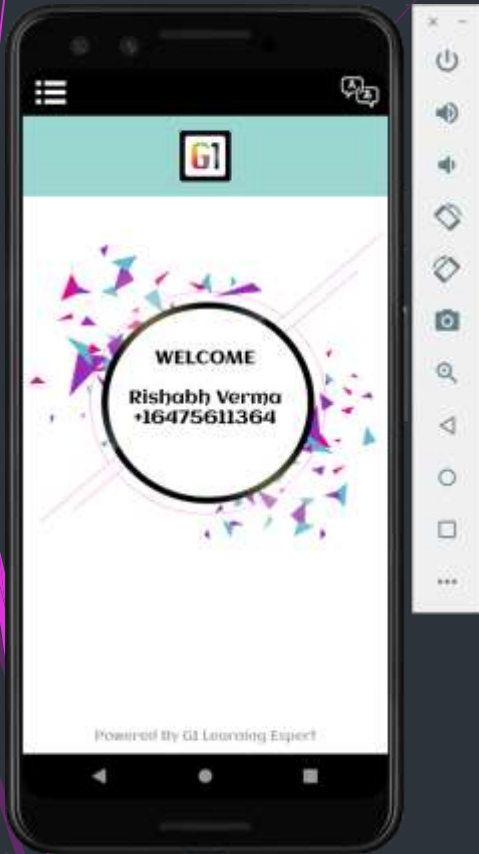
All Scores



Mode Independence : Night and Light mode



Data Persistence



Connectivity to Room Database

Reason behind data persistence is RoomDB

- ❑ The data is stored on cloud (FireBase) as well as locally so that the user gets the better UX.
- ❑ User is no more required to login into the app every time he/she takes his/her tie off.
- ❑ This saves time as well as the efforts of user to get access of his or her account.
- ❑ User gets more freedom to close and open the app on the go from the same page he or she left at.

ROOM PERSISTENCE LIBRARY

Connectivity to Firebase

Application is equipped with the capability of storing the data over the cloud.

- ❑ As we all know the cloud is future of storing data.
- ❑ This is could make everything a lot more easier and feasible for the user as well as developer to make the app a better place to get indulged.
- ❑ For developer it is easier to get the admin control for the app and moreover making changes are better as well.
- ❑ From the User point of view it gives more reliability to get fetch and receive the data from the cloud storage as compared to local.

Localization : Language Independence



Learning a new concept in own language can make it more effective and efficient to grasp it.

- ❖ We have made this app capable of operating in to three most spoken language in Canada (especially Toronto region) : English ,French and Punjabi.
- ❖ Localization gives the user an independence of choosing the way of learning they want according to their intellect.



Conclusion

- ❑ Free App
- ❑ Easy to use
- ❑ Evergreen
- ❑ Large no of users can use this app because of “Change Language” option



Bibliography

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THANK
YOU