

ParkingEaze

Apr 14/15 Submission

Section 10. Technology Report Evaluation

Prescreening Checklist

1. Has a Proposal for a Technology Report been submitted and accepted and a copy of the approved proposal included in the Technology Report?

Yes

2. Has the Technology Report been submitted within one year since the proposal was approved?

Yes

3. Is the Technology Report consistent with the Proposal (as approved and with the comments and suggestions made by the proposal reviewer)?

Yes

4. Is the Technology Report typed, double-spaced and justified left?

Yes

5. Has a 12 point Arial, Univers, or similar Sans Serif font been used?

Yes

6. Is the body of the report a minimum of 3,000 words?

Yes

7. Are the components included and in the following order: Title Page; Declaration of Authorship; Approved Proposal; Abstract/Executive Summary; Table of Contents; Lists of Illustrations/Diagrams; Body of the TR; Conclusion(s), and if applicable Recommendation(s); Bibliography/Technical References; and Appendices?

Yes

8. Is there a signed Declaration of Authorship?

Yes

9. Is the report dated?

Yes

10. Is the Technology Report current? (The Technology Report should be less than 5 years old.)

Yes

11. Is there a Title Page?

Yes

12. Is there a Table of Contents?

Yes

13. Does the Table of Contents correctly reflect the Components: Headings, Illustrations/Diagrams and Appendices?

Yes

14. Are the pages numbered with appropriate page breaks?

Yes

15. Is there an Abstract/Executive Summary and Introduction?

Yes

16. Does the body of the report contain Section Headings?

Yes

17. Are there Conclusion(s), and if applicable, Recommendation(s)?

Yes

18. Is there a Bibliography with appropriately cited Technical References?

Yes

Report Mechanics and Structure Checklist

1.Does the Title, in ten words or less, inform readers of the precise subject matter contained in the TR?

YES

2.Does the Abstract or Executive Summary provide a brief overview of the report in approximately 75 to 100 words?

YES

3.Does the Abstract or Executive Summary summarize the Conclusion(s), and if applicable, the Recommendation(s)?

YES

4.Does the Introduction state the reason the work was undertaken?What is the industry, organization or context? What is the problem?

YES, everything is well explained.

5.Does the Introduction cover the scope of the report? What is included and /or admitted, and what procedures are used?

YES, the procedures and the included components are explained.

6.Do the headings and subheadings in the Body adequately and accurately describe the section or subsection content?

YES

7.Does the Body include information regarding the methodology?

YES

8. Does the Body include recent research findings?

YES

9.Does the Body include results/data from the study?

YES

10.Are illustrations, tables, diagrams and charts clearly drawn, labelled and numbered?

YES

11.Is each Conclusion, and if applicable, each Recommendation, stated in a separate paragraph and in a positive way?

YES

12.Are the References/Bibliography complete?

YES

13.Do the Appendices support the study?

YES

14.Is the spelling correct?

YES

15.Is the language free of jargon?

YES

16.Is the same voice (I, one, person, etc.) used consistently throughout the Technology Report?

NO, because in the initial stages we've talked about our individual projects and after integration it was made as one complete project.

17. Do the grammar and punctuation follow normally accepted rules of use?

YES

18. Are thoughts and illustrations/diagrams/charts that do not belong to the writer properly identified and footnoted in the text?

NO, not completely some of them does not have all the information required in the footnote.

Report Content

1. Are the Problem Statement and Hypothesis significant to the current state of the field/industry?

ANS: Yes

2. Is the Methodology scientifically sound?

ANS: Yes

3. Are the engineering technology and applied science principles used in the Methodology and Analysis appropriate to the subject area?

ANS: Yes

4. Are the Data and/or Results complete?

ANS: No, the result is not complete related to firebase. In the firebase it displays some of the data entries not all the information.

5. Have the Mathematical formulae been applied appropriately?

ANS: Yes

6. Are the Mathematical calculations done correctly and accurately?

ANS: Yes

7. Are the Illustrations/Diagrams/Charts technically correct?

ANS: Yes

8. Is the Analysis of the results correct? © Copyright Ontario Association of Certified Engineering Technicians and Technologists (OACETT), 2017 14

ANS: Yes

9. Is the Analysis complete?

ANS: Yes

10. Are the Conclusion(s), and if applicable the Recommendation(s), free of discussion, explanation and opinion?

ANS: No, the conclusion includes the next steps, improvements and opinions which are discussed by group members along with the explanations.

11. Do the Conclusion(s), and if applicable the Recommendation(s), relate to and resolve the Problem Statement and/or Hypothesis?

ANS: Yes

12. Are the Conclusion(s), and if applicable the Recommendation(s), logical?

ANS: Yes

13. Does the report make a contribution to the industry/field of study?

ANS: Yes

Results and Discussion

The ParkingEaze mobile application provides a reliable user interface and easy to navigate functionality in it. The app. first opens up with a splash screen with a time delay of 3sec to load and then provides the user to:

1. Register as a new user.
2. Login access with the same credentials.
3. Navigate between 2 different parking lots.

Once the user is logged in and selected the parking lot, it gives the user access to:

1. Select the date- The date user wants to park the car.
2. Start time – At what time the user wants to park the car in the parking slot.
3. Duration – For how long the user wants to park its car for.

After filling all the necessary details, on clicking the “Show available slots” 6 specific slots will be shown in green color meaning that the slots have not been booked. Once the user selects the slot, it turns the color to red and generated the toast message saying “Slot # booked!”. For more functionality, this app also provides navigation drawer with information such as “My bookings” where the user can see all the prior booked slots.

All the information and the selections made by the user are sent to the server-side database connected with the firebase. Here the admin can see the details of the user such as the name of the user, time and date the slot is booked, slot number.

Conclusion

The project for the parking is accomplished to an extent of showcasing it as a finished one. Further improvements can be done in the android application to make it more effective and user-friendly. Moreover, new features can be included in the design and functionality such as providing more options for the user. The experience of making the android application and hardware production provides the necessary skills which make us being capable of moving to advance steps for the project development. We are moving forward to fix the errors and troubleshooting the software application along with working on the database. Although hardware components are integrated and work accordingly yet further changes and modifications can be considered to grow the parking space for additional plans in the future. Overall, the project has allowed us to solve a real-world problem through this course as we learn vital technical skills and knowledge using both hardware and software.