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## **DEPARTMENT OF COMPUTER STUDIES**

### **ACCOMPLISHMENT REPORT FOR UNDERGRADUATE THESIS**

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**TITLE OF THE STUDY:** LAKBAY – A THREE-DIMENSIONAL GAME ABOUT DRIVING  
FUNDAMENTALS AND ROAD COURTESY AND SAFETY OF GEAR-1  
DRIVING SCHOOL

#### **I. SHORT BACKGROUND DESCRIPTION OF THE STUDY**

Road users which consist of both pedestrians as well as drivers have their cents of responsibilities on the road. Moreover, the driver as the “master of the road” has to fulfill them to the best of their abilities to prevent Road Crashes. One of the causes of Road Crashes often happen because of human error, not obeying rules and regulations on the road, or maybe because of lack of knowledge about road responsibilities. Disregarding these possible causes can result in fatal loss to road users and those around them. That is why it is important for drivers and future ones to be equipped with proper knowledge before deciding to maneuver their wheels on the road.

Gear-1 Driving School is a driving school located on Molino Road, Molino III in which aspiring drivers are trained to be defensive drivers. The said school aims to produce the best and quality drivers who can be both responsible and skillful. Since their mode of teaching to their applicants are more on traditional means, some of them lost their attention and tend to lose interest in their topic discussions which may result in poor absorption of the knowledge about driving.

This study was developed to address the said problem of the organization. Moreover, it will provide a convenient platform that will help the user to learn about driving while enjoying it at the same time. It aimed to be an aid for the school to disseminate information about driving more engagingly. This will help the applicants to enjoy learning through play.

## II. DETAILED ACCOMPLISHMENT REPORT

TIMEFRAME	ACTIONS TAKEN	ACCOMPLISHMENT/ OUTPUT	REMARKS
April 12 – April 22, 2021	<p>Researchers uploaded system files.</p> <p>Researchers consulted their Thesis Adviser (TA) and Technical Critic (TC) for revision of the manuscript and system.</p>	<p>Gathered information and worked on documentation about the overview and background of the chosen client.</p> <p>Rearranging folders and hierarchies for developing the system. Changes in User Interface, Orientation and assets are being added to the system.</p>	Completed
May 7 – May 26, 2021	Online consultation with their TA and TC for revision of manuscript and system.	<p>Client's Interview Report Revised Statement of the Problem (SOP) and Objectives of the Study.</p> <p>Revision of Methodology and Related Literature and Studies.</p>	Completed
June 8, 2021	Part B Defense	Researchers successfully defended the system on the panelists.	Completed
June 24 – June 26, 2021	<p>Researchers revised the concept of the system.</p> <p>Researchers gathered data to be used for the Video Module included in the system.</p>	<p>Information about tests used in taking a driver's license was incorporated into ideas/ concepts to be used in the system.</p> <p>Videos gathered were integrated into the system as part of the module.</p>	Completed
August 11 – August 25, 2021	<p>Researchers messaged the client for check and approval of the set of questions to be used as part of the system.</p> <p>Researchers continue to develop and revised changes in the system</p>	<p>Approval of the set of questions with the signatory of the client.</p> <p>Recoding of the Linear Play into Question Runner's concept.</p>	Completed
January 4 – January 8, 2022	Researchers continued to consult their TA and TC virtually.	The system's minor revisions were made and manuscript appendices and deliverables were added.	Completed
January 13, 2022	Researchers consulted their TA and TC for the system and expected evaluation after.	Ready for Evaluation for the respondents.	Completed

January 14 – February 8, 2022	Researchers created a Google Form for the evaluation of the respondents.	The quota for the evaluation of respondents was successfully met and results were given to the statistician for the computation.	Completed
March 1 – March 20, 2022	Researchers created a presentation and practice for the final defense.	PowerPoint presentation as well as the demo videos for final defense,	Completed
May 26 – June 7, 2022	Researchers continued to develop and revised both the system and manuscript based on the revisions of the panelist.	Revised Manuscript and System.	Completed
June 11 – June 29, 2022	Researchers submitted the manuscript to the English Critic and continued to revise the documentation after.	Revised manuscript.	Completed
July 1 – August 6, 2022	Researchers prepared the necessary documents as well as the final manuscript to be hardbound.	Routing Slips and Hardbound Manuscript	Completed

### III. BRIEF SUMMARY OF FINDINGS

OBJECTIVES	DATA COLLECTED	FINDINGS
To create a module that will provide reliable lessons to help the students in learning and reviewing the lessons conveniently.	<p>The researchers gathered reliable sources of information about driving and incorporate it through a game that can be played on an android phone. The client also suggests sites and electronic books which can be used for further reliable sources of information.</p> <p>Also, an interview report was produced and signed by the client's representative.</p>	<p>An alternative way of information dissemination about driving will help the organization to disseminate information more engagingly.</p> <p>The client commends the plan to create a system that can be used in a platform that will allow people to learn while playing at the same time.</p>
To create a module with fun features that will keep the students of Gear-1 Driving School entertained while learning and make it more convenient for both the instructors and the students.	The researchers gathered information about the process of how tests are being given to a driving applicant. The gathered information was used to plan a concept and incorporate these ideas into a platform that is both engaging and entertaining to learn.	Aside from the alternative way of disseminating information about driving, a system must have a feature that can be engaging to the users, and information should be reliable and trusted by the client.

To develop a module that will help students with Theoretical Driving Course's exams in English and Filipino language.	<p>The researchers collected information about the Theoretical Driving Course as well as listed questions that normally occurs during the course's exam and listed them for it to be integrated into the system.</p> <p>Also, information about Theoretical Driving courses in both Filipino and English languages was used and considered as part of the development of the system.</p>	Both Filipino and English languages were used to test the driving applicants in test exams for Theoretical Driving Course. The test exams helped them review the questions as they are written in a language that they are most comfortable using.
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#### IV. INSIGHTS

This study taught the researchers the importance of data time management. Time management has always been one of the crucial parts when it comes to doing a project that needs to be done in a specific period. Tasks should be met following the schedule and there should be always other plans if the said schedule has not been met. Also, it taught the researchers about the importance of data gathering. Data gathering should be done surely with precision and the information gathered should be intended only for the research's objectives. The data that will be gathered played an important role in the success of the study.

Researchers encountered different challenges along with the study itself. From the very start, limited resources and knowledge tested the researchers and nearly doubt that the study will progress as it is. The panelists' suggestions and recommendations on the system also play a big challenge that needs overcome specifically on the side of the programmer. The emergence of the COVID-19 pandemic and the Enhanced Community Quarantine (ECQ) period happens to be the most challenging one. Data gathering and meet-ups of the client and researchers have limited as well as the evaluation of respondents of the study. Face-to-face meetings are not possible during this period wherein connection and flexible meeting hours between the client and developers were challenged to their utmost.

Thankfully, those challenges were surpassed by the researchers through their determination and teamwork. Researchers continue to learn the importance of fundamentals as it helped them throughout the study. We are earned and keep our learnings and will continuously explore the world of developing a system.

This research will not be successful without the help and guidance of our Thesis Adviser and Technical Critic. Their efforts and suggestions both on the documentation and system helped the study to progress surely and successfully.

The development of the study taught the researchers that they have so much to learn and vast room for growth in the corporate world. The study is one step closer for them to fully grasp the value and responsibility of being proper Information Technologists. We are proud and earnestly thankful that we develop software that exceeds our limitations and expectations.

As an overall assessment, this research met all of its objectives.

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