

ACKNOWLEDGEMENT

Praise is upon the Almighty Allah for giving us the strength, health and facility to complete this assignment in time.

Firstly, we would like to express our sincere gratitude to Encik Mohamad Rahimi Mohamad Rosman, for his kindly encouragement and guidance because without his guidance, we could not properly do this task. He gave us the correct ways and full support to do this assignment.

We would like to thank our parents for their support in completing this assignment. Without their moral and financial support, we would not have been able to do it.

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1.0 INTRODUCTION

Parents nowadays are very busy with their works as both husband and wife go to work for their families' survival especially for those who lives in metropolitan city. Most of the parents do not have enough time to send their children to the school and due that, they used the school bus services. The school bus will pick up their children in front of their houses and send their children to the school. Same goes when the school period end, the school bus will safely send back the children to their homes. School bus or school van is an important transportation services provided for the children and students to be send to the schools as their families pay the fees for the services. The school bus not only used by the school students, but also been used by the universities students in Malaysia.

In Universiti Teknologi Mara (UiTM) Machang Campus, the university provided the school bus or well-known as "*tenggiling*" for the students to go to their classes or to other destinations. The students that staying in the college or outside the UiTM can used the *tenggiling* services as the driver will pick up the students to go to the classes and send them home after the class ended. *Tenggiling* is very important transportation for UiTM students especially for those who staying in colleges and did not bring their own transportation such as car or motorcycle to the UiTM. *Tenggiling* mostly used by the students who staying in the college for them to go to the class and other destinations during weekend because they cannot bring their own transportation inside UiTM unless received an approval from the rector of UiTM.

Other than riding the *tenggiling* to go to classes, the students also will book the *tenggiling* for sending them to the terminal to go back to hometown. Usually, *tenggiling* will have a full booking during the celebration days and during semester break. Students can have the contact number of the driver, so that they can contact and know whether the *tenggiling* is available or not for them to book and ride it to go to the needed destination. In UiTM Machang, there is no systematic system that manages the booking of *tenggiling* and there is no specific information about the *tenggiling* driver provided for students to refer for the availability of the *tenggiling*. The students' safety also did not secure during riding the *tenggiling*, which there is no evident can be used when something bad happened to the students during riding the *tenggiling*. Therefore, the structured system needs to be developed and the name of the system is E-Giling.

2.0 STATEMENT OF PROBLEMS

In UiTM Machang, the students were very active with the associations and clubs' events during day and night. The students that staying in colleges will ride the *tenggiling* to go to the events. However, during the night when the students have some events or group discussions in the UiTM, it is really difficult for the students to contact the *tenggiling's* driver who on duties on that night to pick them to go back to the college or their home. The students did not know and did not have the specific schedules of the *tenggiling* that on duty during the night. Due that, there were many students especially female students waited for the *tenggiling* until late night for them to go back to their rooms. There were some of the students go back to their college by walking during late night. It is very dangerous for the students' safety although they were in the UiTM area.

Other than that, the students also will face another difficulty when it comes to celebration day especially *Hari Raya Aidilfitri*, where all students will go back home for semester break. The students that want to go to the bus station need to book the *tenggiling* early for the driver sending them to the bus station. If the students make a late booking, then there will no available *tenggiling* that can send them to the bus station. The students at least need to book the *tenggiling* three or four days before the semester break started for the available *tenggiling* to send them to the bus terminal. The students need to call the *tenggiling* one by one to know the availability of the *tenggiling*, and if the *tenggiling* is available, the students can book the *tenggiling* and need to remind back the driver about the date of the booking.

Moreover, the students' safety also did not secure during riding the *tenggiling* especially when they ride the *tenggiling* outside the UiTM. The *tenggiling* can harm the students' safety when they drive the *tenggiling* in dangerous way such as driving faster inside or outside UiTM. Most of the *tenggiling* passengers are female students, so there is possibility that the *tenggiling* driver can take some advantages from the students such as sexual harassment, higher charge, or other indecent acts. The students can make a report to the *Polis Bantuan* about the case, but there will be no evident that can be used to strengthen the report. It will be hard for the *Polis Bantuan* to take action if there is no evident can be used especially for those students who is riding the *tenggiling* alone without any friend with her.

3.0 DEVELOPER PROFILE



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PERSONAL DETAILS

I/C Number	:	960104-06-5246
Date of Birth	:	4 January 1996
Place of Birth	:	Hospital of Tengku Ampuan Afzan, Kuantan, Pahang
Age	:	22 years old
Race	:	Malay
Religion	:	Islam
Status	:	Single

EDUCATION

- 2017 – 2018** : **Universiti Teknologi Mara (UiTM) Kelantan Machang Campus
Bachelor of Information Science (Hons.) Information System
Management**
- 2014 – 2016** : **Universiti Teknologi Mara (UiTM) Kelantan Machang Campus
Diploma in Information Management
CGPA 3.83**

Major Courses: Fundamentals of Entrepreneurship, Introduction to Web Content Management and Design, Reference and Information Services for Information Agencies, Foundation of Archives, Extension Services for Information Agencies, Management of Libraries and Resources Centers, Promotion of Information Products and Services, Electronic Publishing, Communication Skills for Information Professionals, Information and Communication Technology Application.

- 2009 – 2013** : **Sekolah Menengah Kebangsaan Sultan Abu Bakar
Sijil Pelajaran Tinggi (SPM) - 6As 3Bs
Peperiksaan Menengah Rendah (PMR) – 7As 1B**

EXTRA CURRICULAR ACTIVITIES

- Exco Kerohanian dan Kebajikan, Persatuan Mahasiswa Fakulti Pengurusan Maklumat (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Setiausaha, Welcome New Generation Of IMAGE (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Biro Tajaan, Program Perantarabangsaan Learn & Le Tour Vietnam (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Pengarah Projek, Sambutan Hari Raya Aidilfitri Bersama Dekan Fakulti & Majlis Anugerah Dekan (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Biro Persegaran, Tautan Kasih IMAGE (Kemasyarakatan), (IMAGE), UiTM Kelantan Cawangan Machang, 2016

- Biro Cenderahati, Entrepreneurship Expertise (ENT300), (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Biro Cenderahati, Sophomore Millenia (Mahasiswa Berintegriti), (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Biro Informasi, Program 'Promotion Science World' (Promotion of Information Product and Service), UiTM Kelantan Cawangan Machang, 2016
- Biro Protokol, Exploring Digital Art, Festival Kolej Ke-12 (FESKO), UiTM Kelantan Cawangan Machang, 2016
- Biro Multimedia, Jalinan Ukhwah-Pantai Timur, UiTM Cawangan Kedah-UiTM Kelantan (IMAGE), UiTM Kelantan Cawangan Machang, 2016
- Biro Disiplin Pengawas Asrama Sesi 2012/2013, Asrama Sekolah Menengah Kebangsaan Sultan Abu Bakar, 2013

SKILLS

Computer Skills

- Skilled in using Microsoft Word, Power Point, Publisher
- Basic skill in using Microsoft Excel
- Skilled in using Adobe Photoshop CS6
- Basic skill in using Adobe InDesign
- Basic skill in using HTML, CSS and PHP

Language Skills

- Fluent in written and spoken Malay and English
- Basic spoken in Mandarin

AWARDS/ ACHIEVEMENTS

2014 – 2016 : Awarded Dean Awards for semester 1,2,3,4 and 5

4.0 OBJECTIVES OF THE PROJECT

There are a few objectives of the development of E-Giling, which are:

Table 1: The problems and the objectives of E-Giling system

Problems	Objectives
<ul style="list-style-type: none">• There is no platform that manage the unorganized <i>tenggiling</i> management	<ul style="list-style-type: none">• To develop a new platform and structured system that manage the <i>tenggiling</i> management in UiTM that can be used and access by the UiTM Machang Campus community
<ul style="list-style-type: none">• Difficulty in booking the <i>tenggiling</i>• Difficulty to track and trace booking record	<ul style="list-style-type: none">• To provide a proper and standardized process for students to book the <i>tenggiling</i>, together with the exposure of booking status
<ul style="list-style-type: none">• Lack of information about the <i>tenggiling</i>	<ul style="list-style-type: none">• To provide the details information about the <i>tenggiling</i> for the students and to improve the access to the information
<ul style="list-style-type: none">• Lack of platform that effectively measure the level of students' safety and welfare	<ul style="list-style-type: none">• To improve the level of students' safety and welfare inside and outside of the UiTM

5.0 SCOPES OF PROJECT

A new platform and structured system needs to be developed in UiTM and the system name is E-Giling. E-Giling is a system that provides details information about the *tenggiling* such as the *tenggiling* number, driver name, contact number and the students even can book the *tenggiling* through online. The system will help the students to book any available *tenggiling* for sending them to the destinations. The students can book the *tenggiling* through the system and do not have to call the driver. Students can know the availability of the *tenggiling* through the booking status of the *tenggiling* provided in the system. They can use E-Giling system anytime and anywhere they want either inside or outside of the UiTM.

Besides that, this system also provide the security for the UiTM students, which they need to scan their matrix cards when riding the *tenggiling* so that, the system can collect the data about which *tenggiling* the students ride and when the students ride the *tenggiling*. If anything bad happened to the students during riding the *tenggiling*, the students can make a report to the *Polis Bantuan* and used the data in the system as evident that they ride the *tenggiling* and it can be strengthen through the data collected by the system as the student login to the system. Through this system, the students' safety especially female students can be improved and it can avoid unwanted and bad things happened to the students during inside and outside UiTM.

E-Giling system can be useful and helpful for UiTM Machang Campus students because they will know all important information and details about the *tenggiling*. They can easily contact and book the *tenggiling* for their own purposes. It also can ensure the students safety inside and outside UiTM. Other than that, this system also help the *tenggiling* to organize the session of picking up the students to go to class and send them home. It will help the *tenggiling* management to measure the total students of each *tenggiling* pick a day, so that they can make a statistic report for their references for the salary as the *tenggiling* driver's salary is based on the total students ride the *tenggiling* in a day. This system will be a new platform for the UiTM Machang community in providing a convenience for the students, *tenggiling* drivers, *Polis Bantuan* and UiTM Administration to manage the *tenggiling* management to become more effective and efficient.

6.0 LIMITATIONS

Although E-Giling system is a new innovation in UiTM Kelantan Machang Campus, but this system still have a few limitations. One of the limitation is this system does not provide online payment for the booking of the *tenggiling*. After the students book the *tenggiling* and the driver sends them to the destinations, they need to pay manually to the driver based on the total charge fee that had been calculated by the system.

Besides that, this system needs technology devices to be operated successfully for the users such as smartphones or tablets. The use of technology devices will become barriers for the *tenggiling* drivers and students whose did not have smartphones, where they cannot access and use the system. It also become barriers for the elderly *tenggiling* drivers whose did not have and expose to the information technology literacy.

7.0 MILESTONE AND GANTT CHART

Table 2 : Milestone table

Activities		2016												
		March				May				Jun				July
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
1.	Planning <ul style="list-style-type: none"> Project identification and selection Project initiation and planning 													
2.	Analysis <ul style="list-style-type: none"> Requirements determination 													
3.	Design <ul style="list-style-type: none"> Design databases Design forms and reports Design dialogues and interfaces Finalizing design 													

	specifications <ul style="list-style-type: none"> • Distributed and internet systems 													
4.	Implementation <ul style="list-style-type: none"> • Coding • Testing • Installation • Documentation • Training • Support 													
5.	Maintenance <ul style="list-style-type: none"> • Obtaining maintenance requests • Transforming requests into changes • Designing changes • Implementing changes 													

8.0 ESTIMATED BUDGET AND COST OF PROJECT

There will be an estimated budget and cost that need to be spent in developing the E-Giling system, which are:

Table 3: Estimated budget and cost of E-Giling development

No.	Items	Budget (RM)
1.	Hardware: <ul style="list-style-type: none">• Computer set• Printer	RM 3,500.00
2.	Software: <ul style="list-style-type: none">• Wamp / Xamp• Adobe Dreamweaver• Notepad++• Photoshop	RM 500.00
3.	Salary <ul style="list-style-type: none">• 1 hour = RM 50.00• 8 hours a day• Total of 30 days	RM 12,000.00
Total Budget		RM 16,000.00

9.0 HARDWARE AND SOFTWARE OF PROJECT

There are a few hardware and software that will be used in developing the E-Giling system, which are:

9.1 Hardware

Table 4: List of hardware used for E-Giling development

No.	Hardware	Description
1.	Computer set	A personal computer is a general-purpose, cost-effective computer that is designed to be used by a single end-user. Every PC is dependent on microprocessor technology, which allows PC makers to set the entire central processing unit (CPU) on a single chip. Computer is being use to do the system and access to the E-Giling system easily. Other than that, computer also being use for design the system, analysis, implement and maintain the system.
2.	Printer	A printer is a device that accepts text and graphic output from a computer and transfers the information to paper, usually to standard size sheets of paper. Printers vary in size, speed, sophistication, and cost. In general, more expensive printers are used for higher-resolution color printing (TechTarget, 2018).

9.2 Software

Table 5: List of software used for E-Giling development

No.	Hardware	Description
1.	Xamp / Wamp	<p>XAMPP (or) is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server such as server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file.</p>
2.	Adobe Dreamweaver	<p>Adobe Dreamweaver is a software program for designing web pages, essentially a more fully featured HTML web and programming editor. The program provides a what-you-see-is-what-you-get (WYSIWYG) interface for users to create and edit web pages in a more user-friendly environment. Dreamweaver supports many markup languages, including HTML, XML, CSS, and JavaScript. As for human languages, it supports English, Spanish, French, German, Japanese, Chinese (both Simplified and Traditional), Italian, Russian, and many more.</p>

3.	Notepad++	<p>Notepad is a generic text editor included with all versions of Microsoft Windows that allows you to create, open, and read plaintext files. If the file contains special formatting or is not a plaintext file, it will not be able to be read in Microsoft Notepad. The image to the right is a small example of what the Microsoft Notepad may look like while running.</p>
4.	Photoshop	<p>Adobe Photoshop is software that is extensively used for raster image editing, graphic design and digital art. It makes use of layering to allow for depth and flexibility in the design and editing process, as well as provide powerful editing tools, that when combined, are capable of just about anything.</p>

10.0 SYSTEM FLOWCHART

10.1 User (Student)

10.2.1 Student Registration

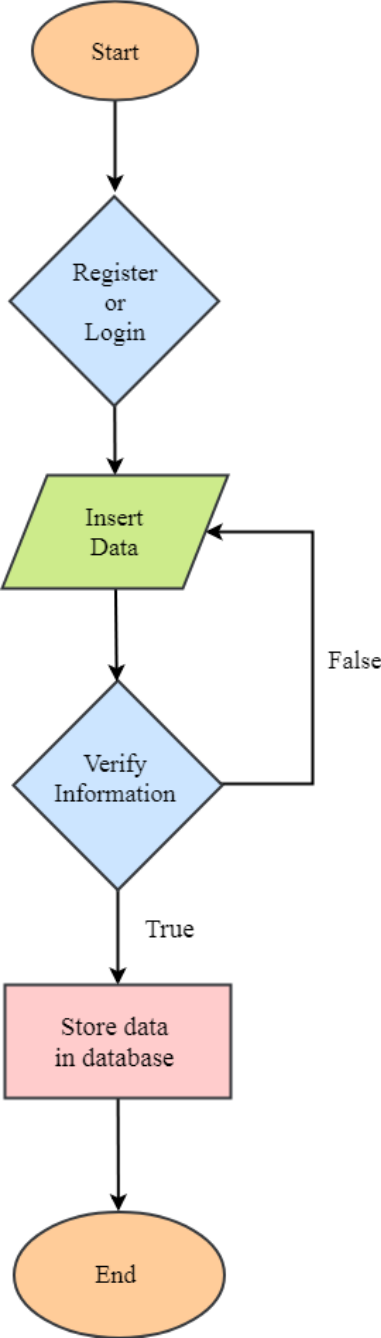


Figure 1: Student registration flow chart

10.1.2 User Booking

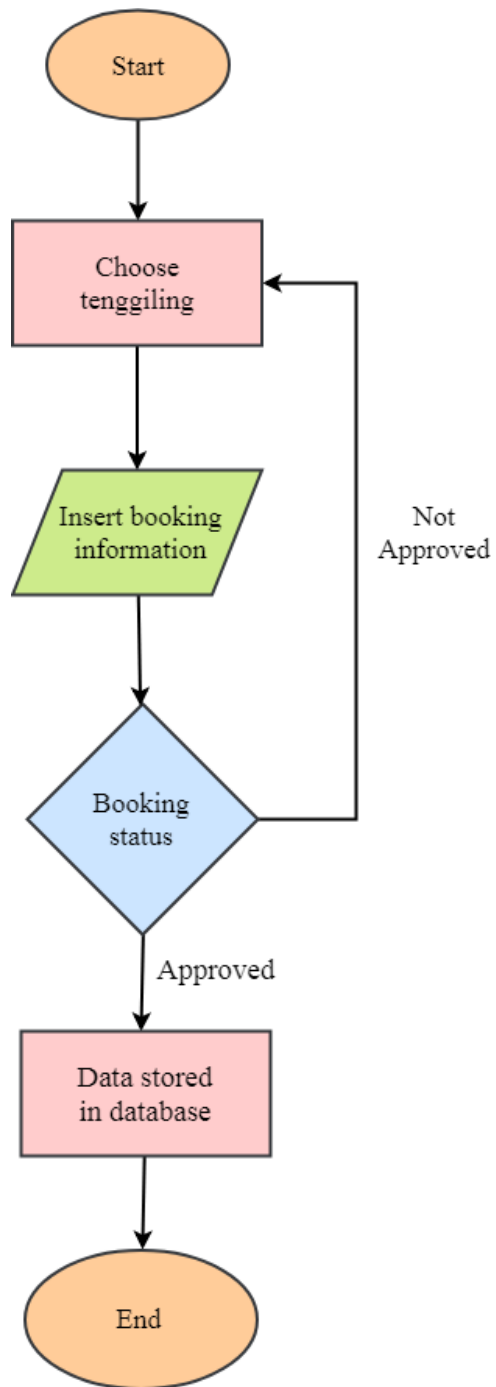


Figure 2: Tenggiling booking flow chart

10.1.3 Feedback

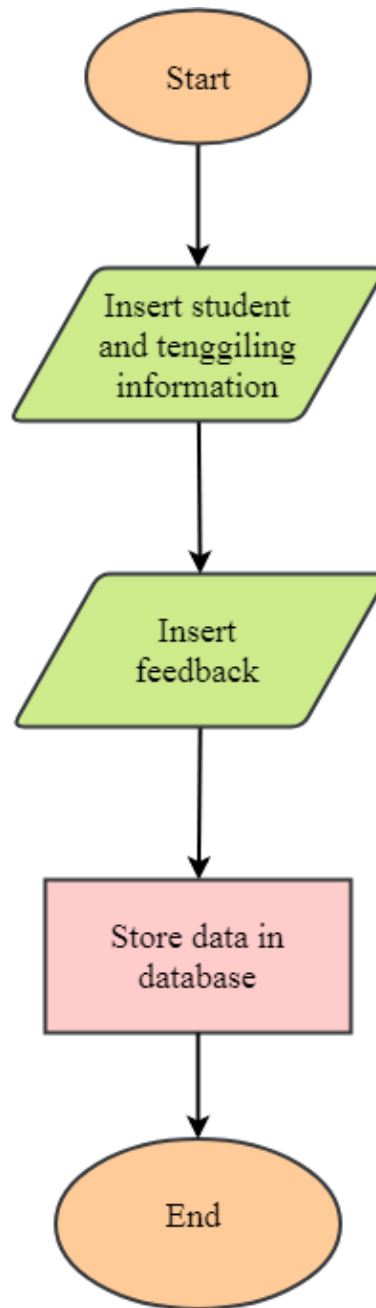


Figure 3: Student feedback flow chart

10.1.4 Rating

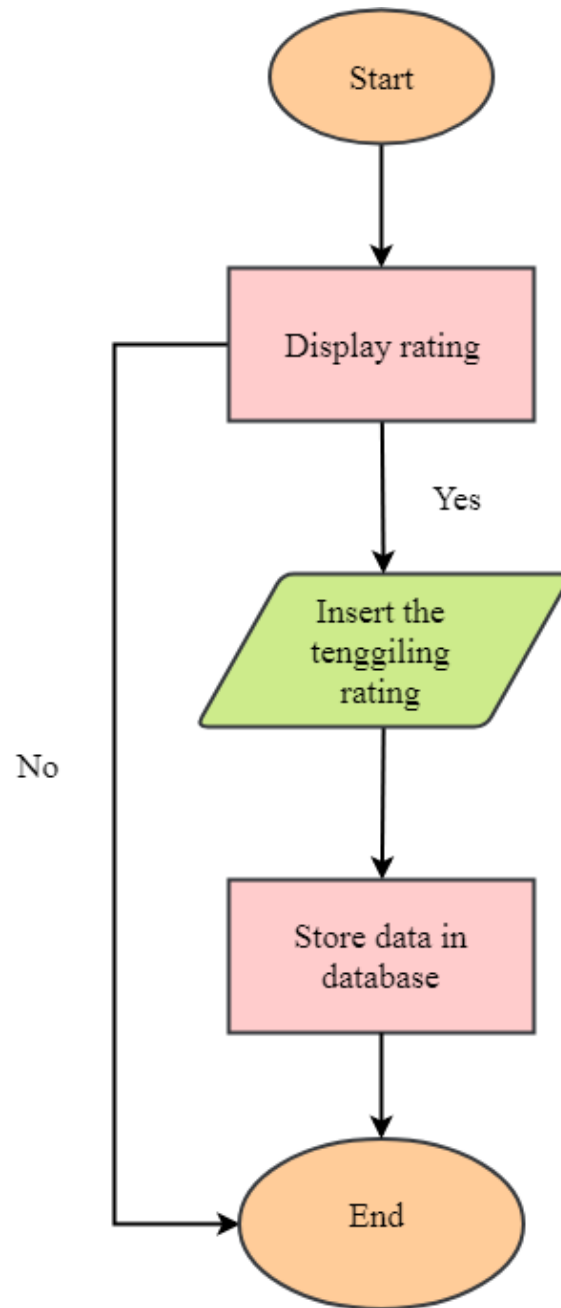


Figure 4: Student rating flow chart

10.2 Tenggiling Driver

10.2.1 Profile Update

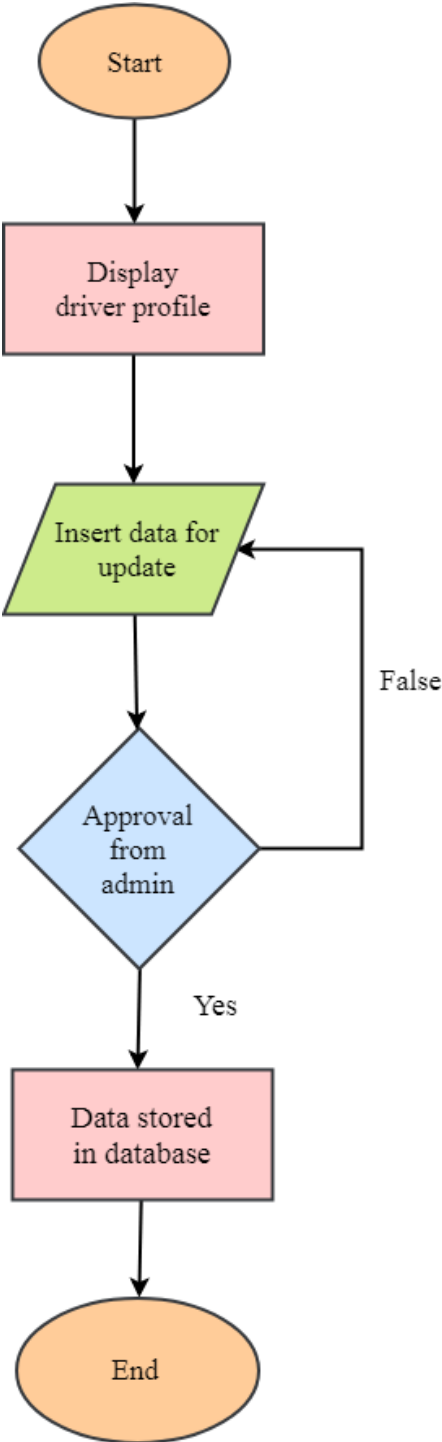


Figure 5: Tenggiling driver profile update flow chart

10.2.2 Booking Approval

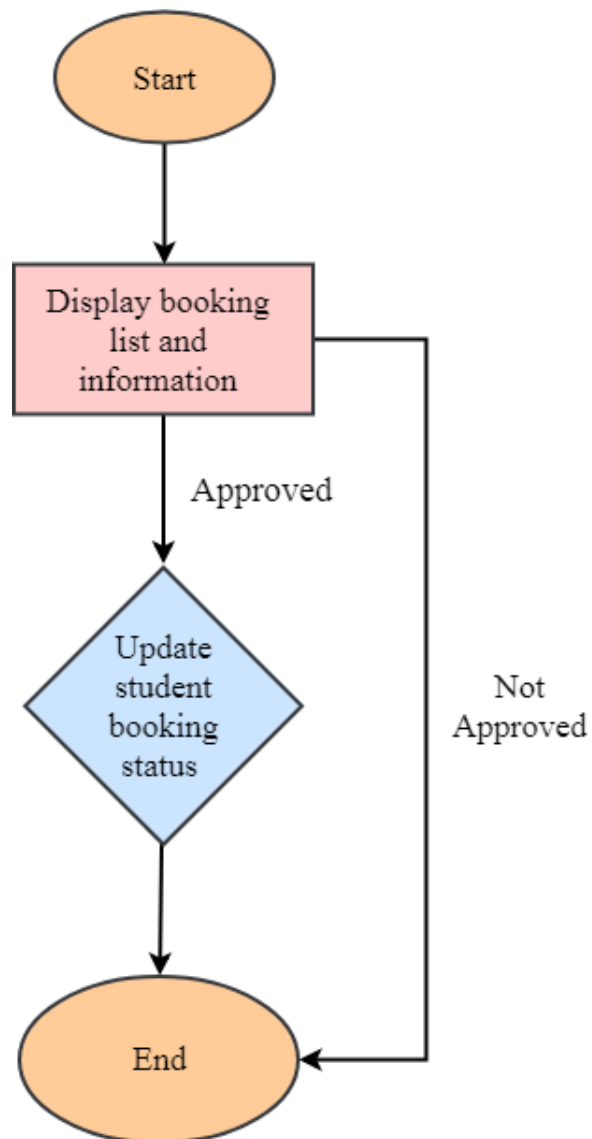


Figure 6: Driver booking approval flow chart

10.2.3 Matrix card scan

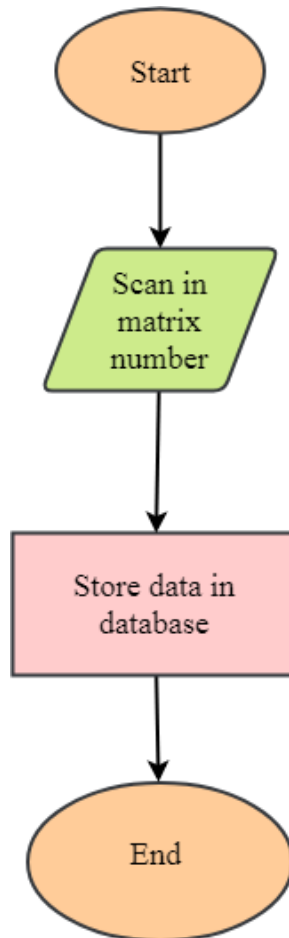


Figure 7: Matrix scan flow chart

10.3 Admin

10.3.1 Profile Approval

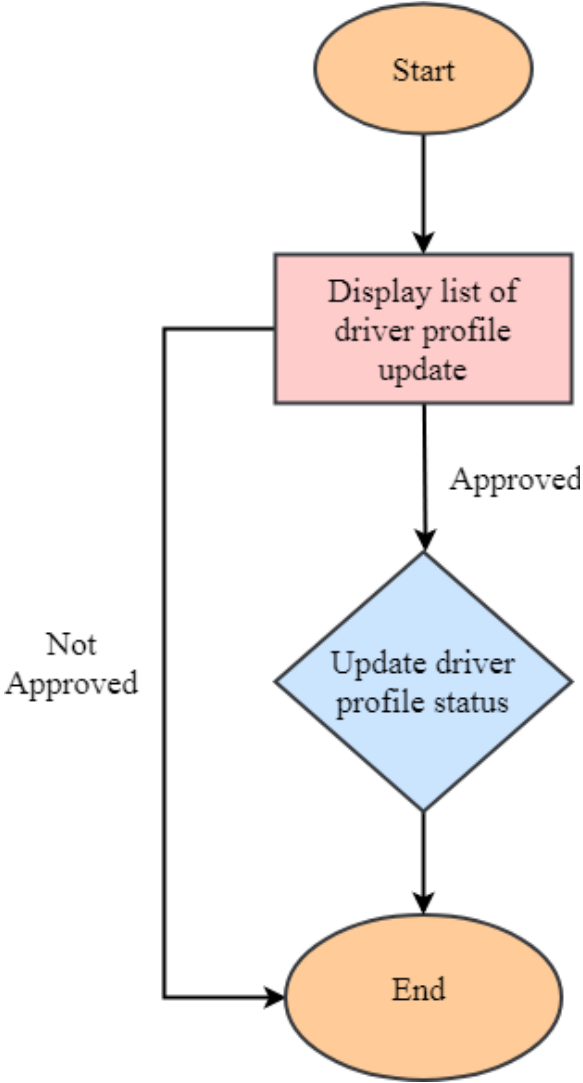


Figure 8: Admin profile approval flow chart

10.3.2 Tenggiling registration

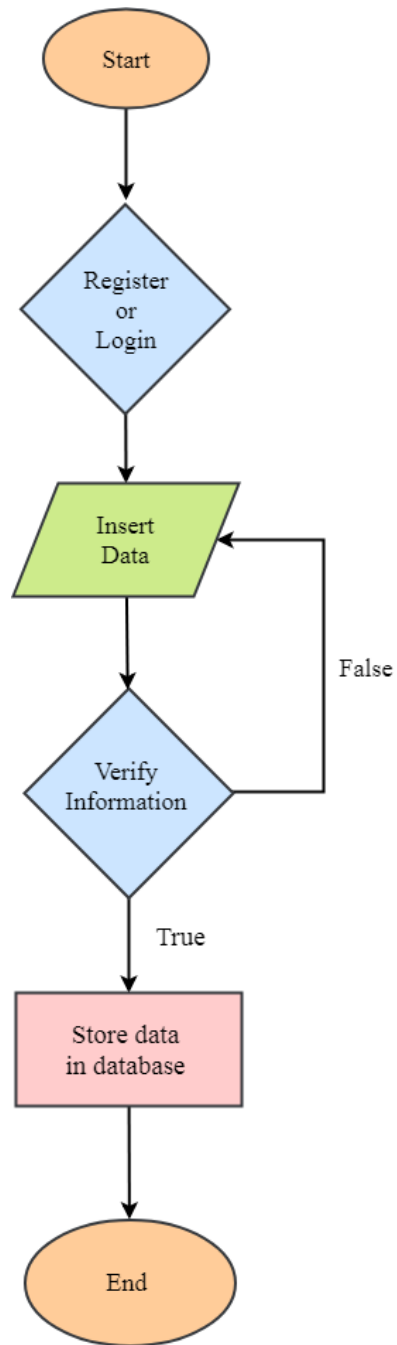


Figure 9: Tenggiling registration flow chart

11.0 STORYBOARD

11.1 Admin

11.1.1 Admin Main Interface

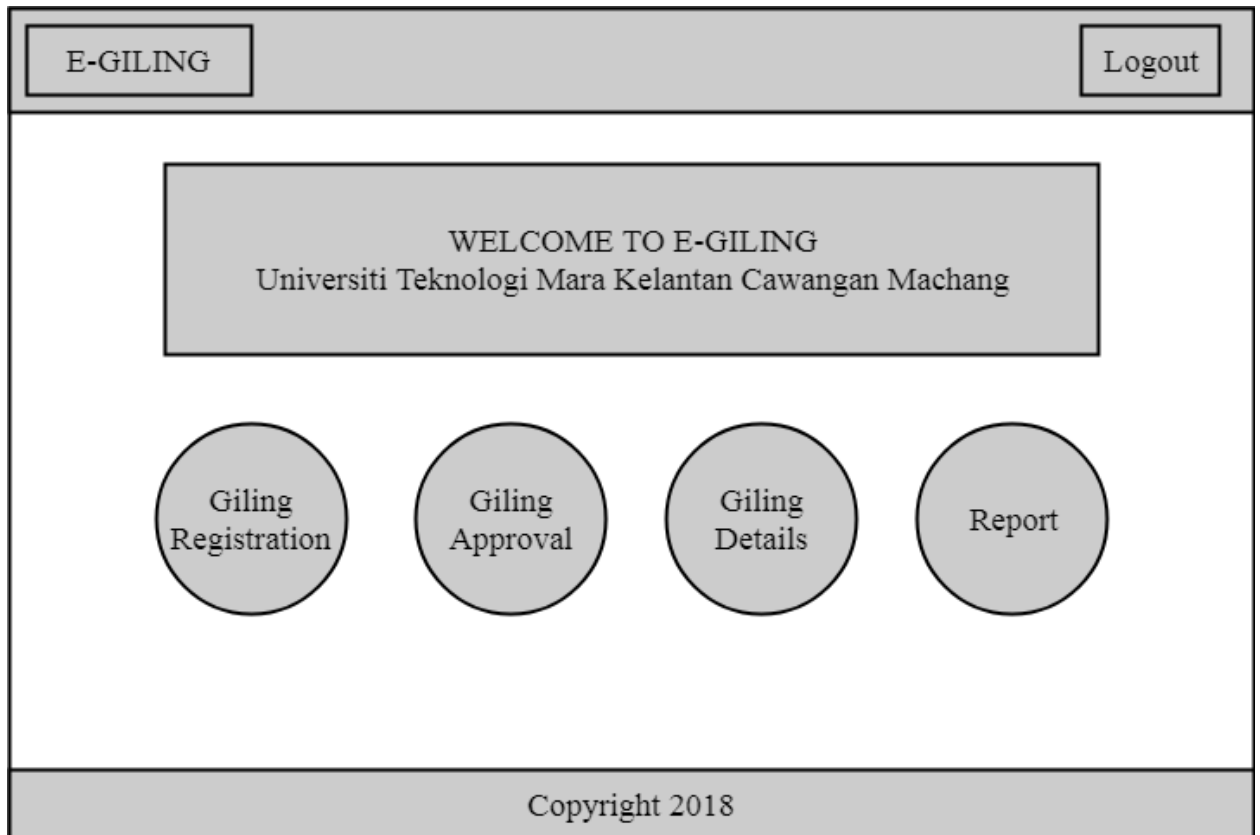


Figure 10: Admin front interface

11.1.2 Giling Registration

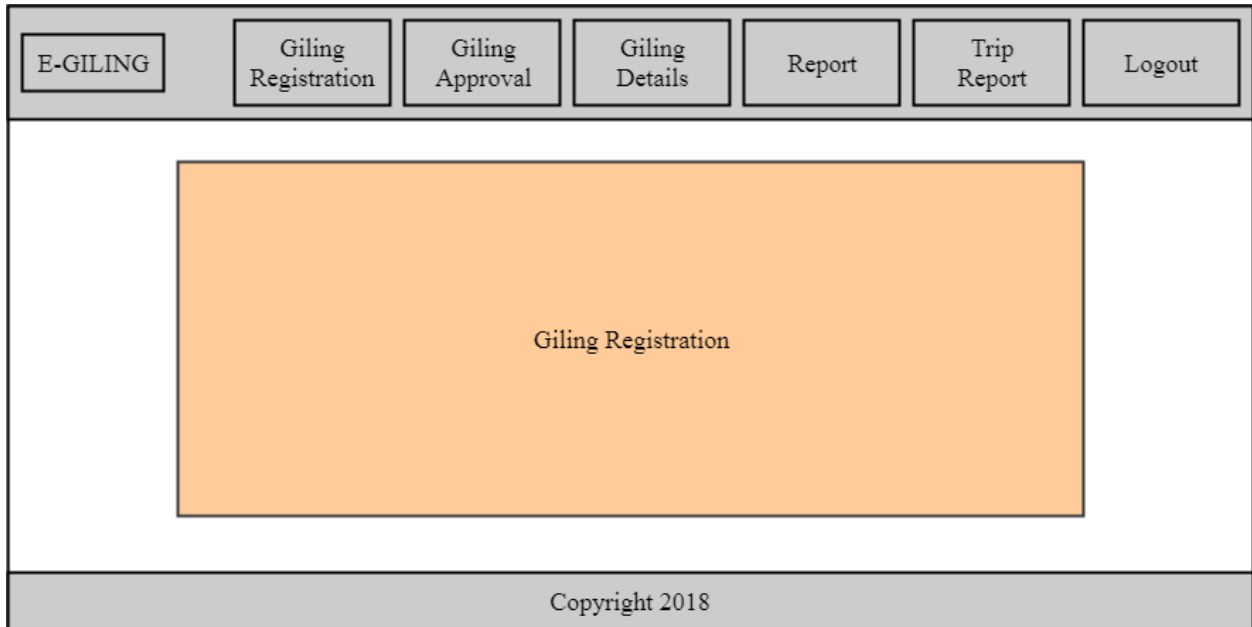


Figure 11: Giling registration interface

11.1.3 Giling Approval

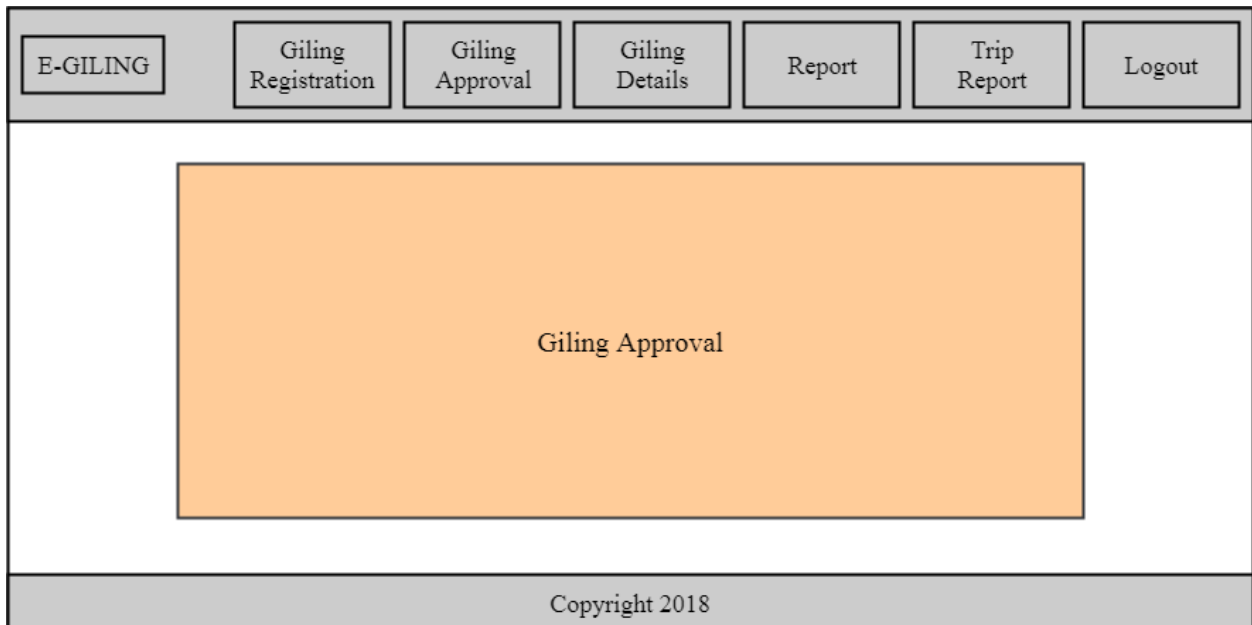


Figure 12: Giling approval interface

11.1.4 Giling Details

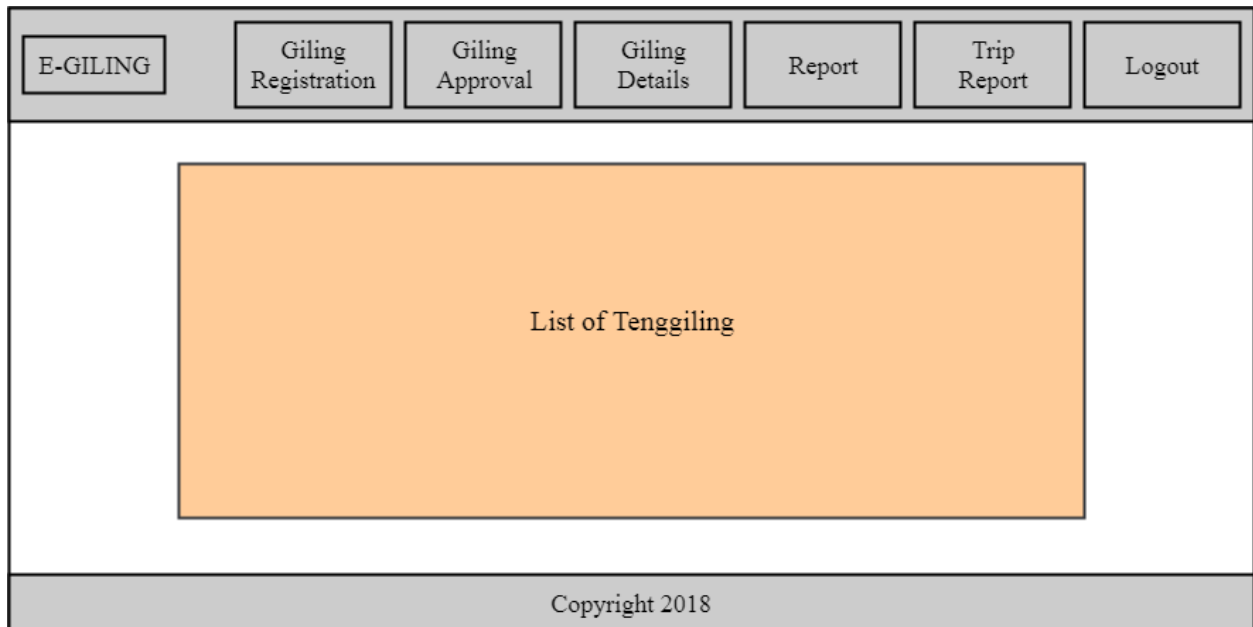


Figure 13: Giling details interface for admin

11.1.5 Report

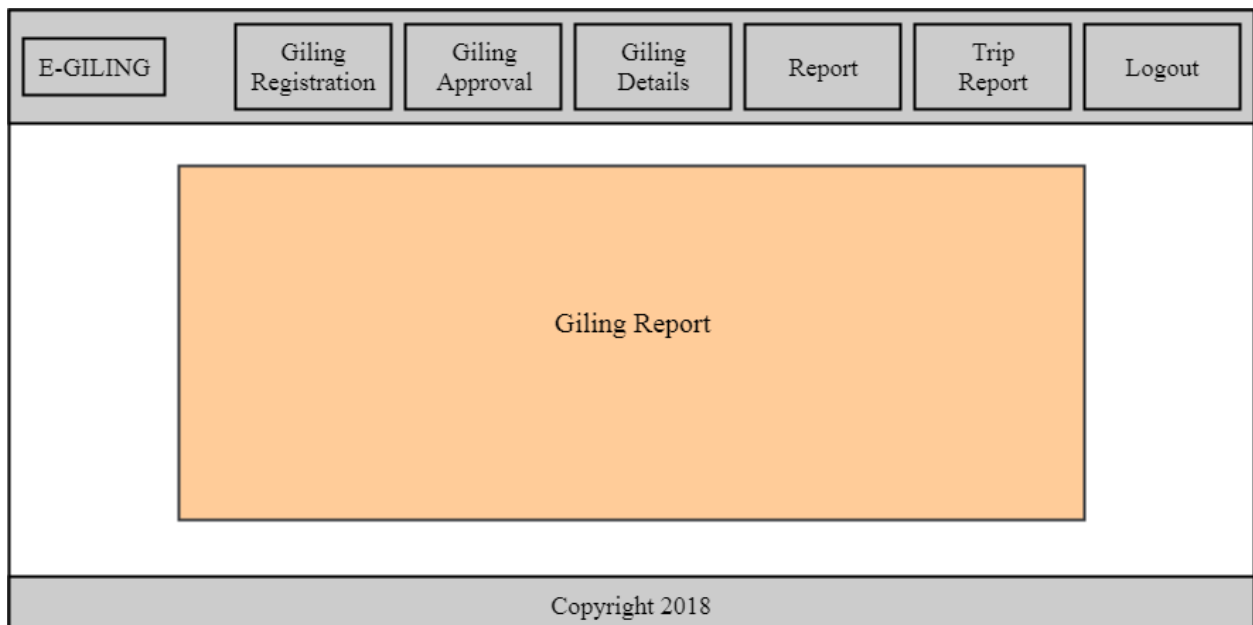


Figure 14: Report interface for admin

11.1.6 Trip Report

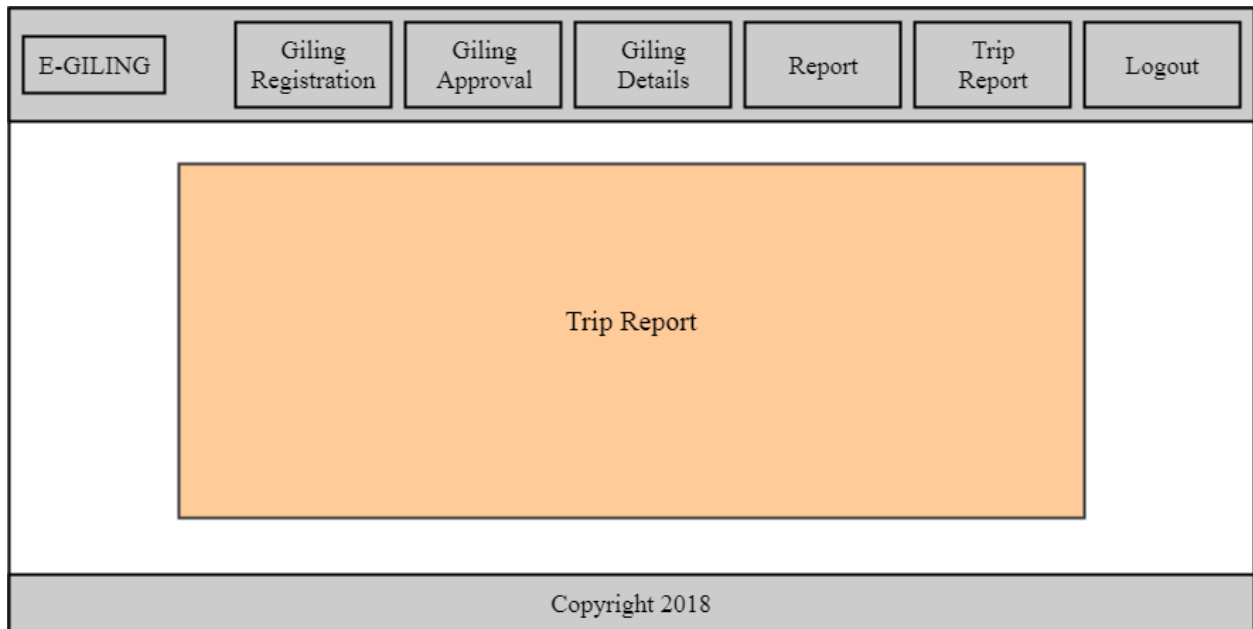


Figure 15: Trip report interface for admin

11.2 Student

11.2.1 Student Main Interface

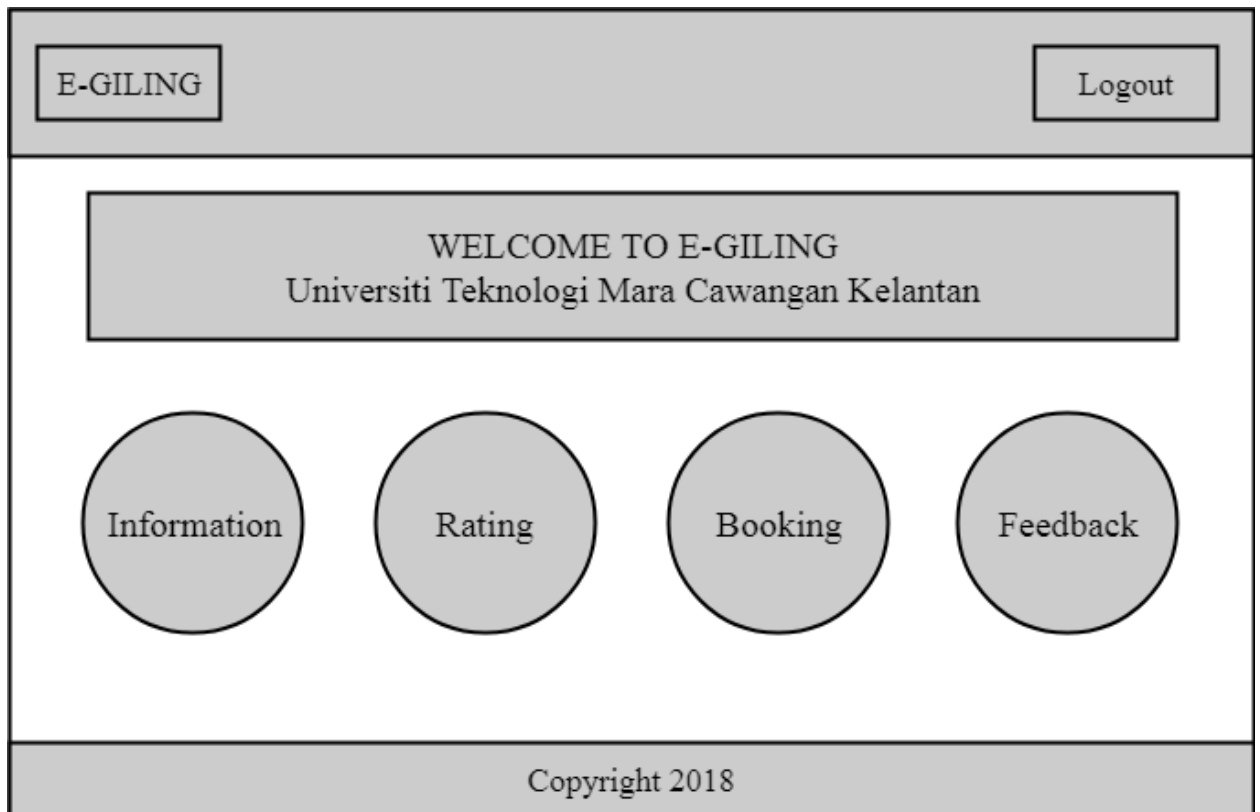


Figure 16: Student main interface

11.2.2 Information of Tenggiling

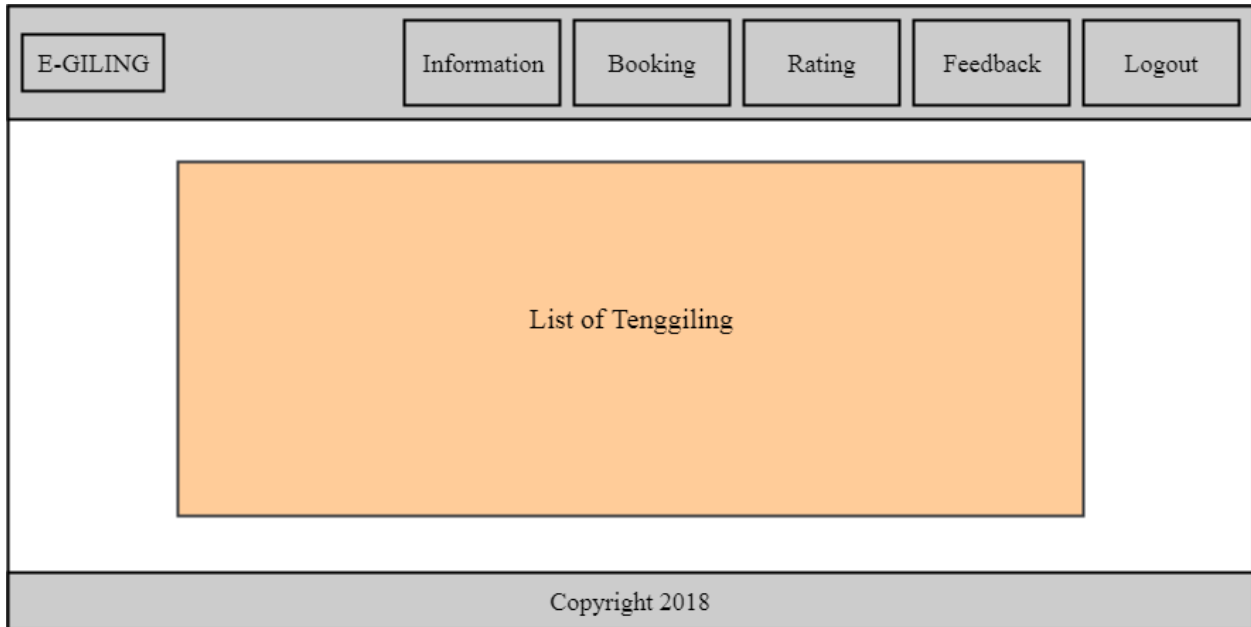


Figure 17: Information of Tenggiling interface for student

11.2.3 Tenggiling Booking

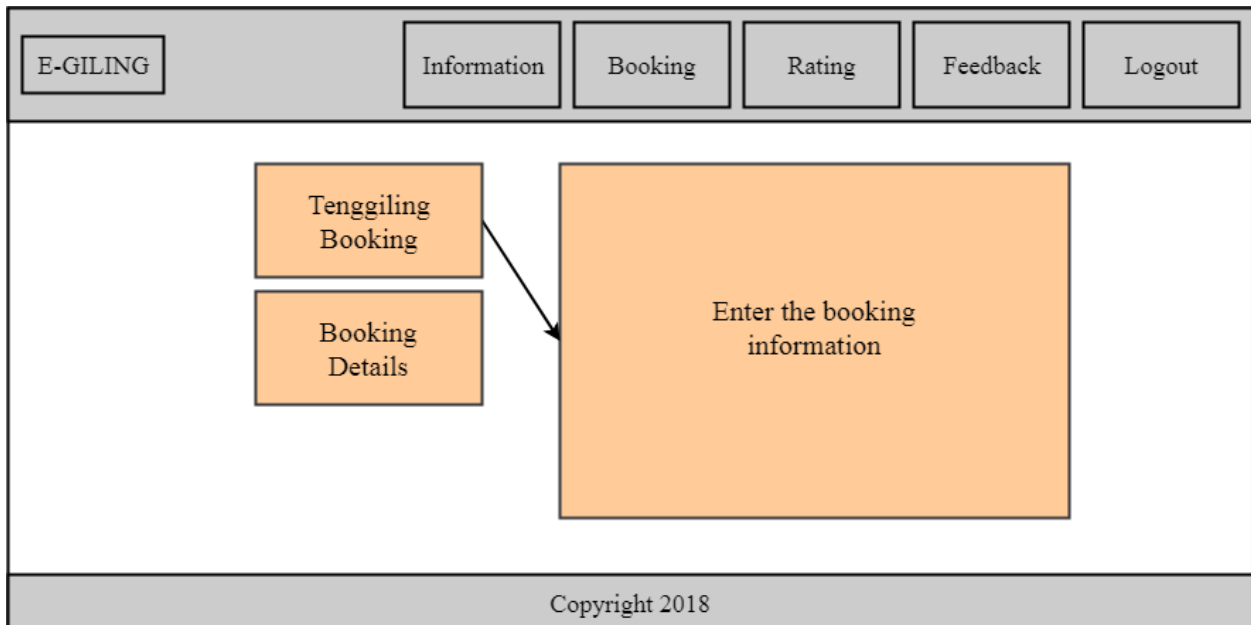


Figure 18: Tenggiling booking interface

11.2.4 Booking Details

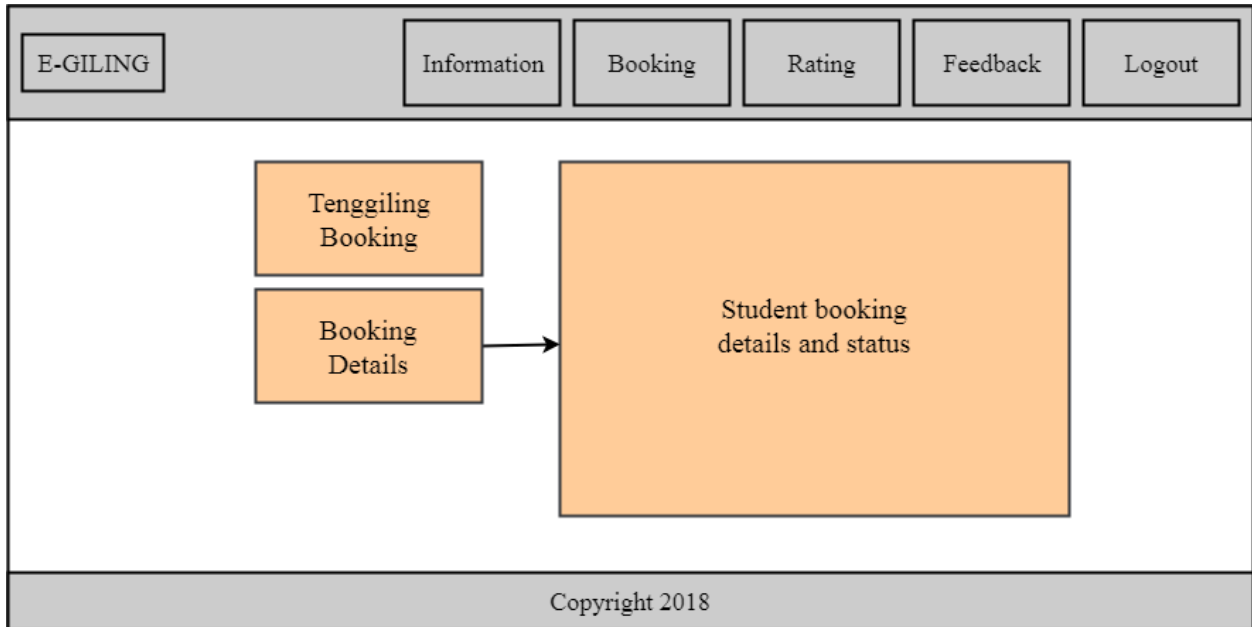


Figure 19: Booking details interface for student

11.2.5 Rating the Tenggiling

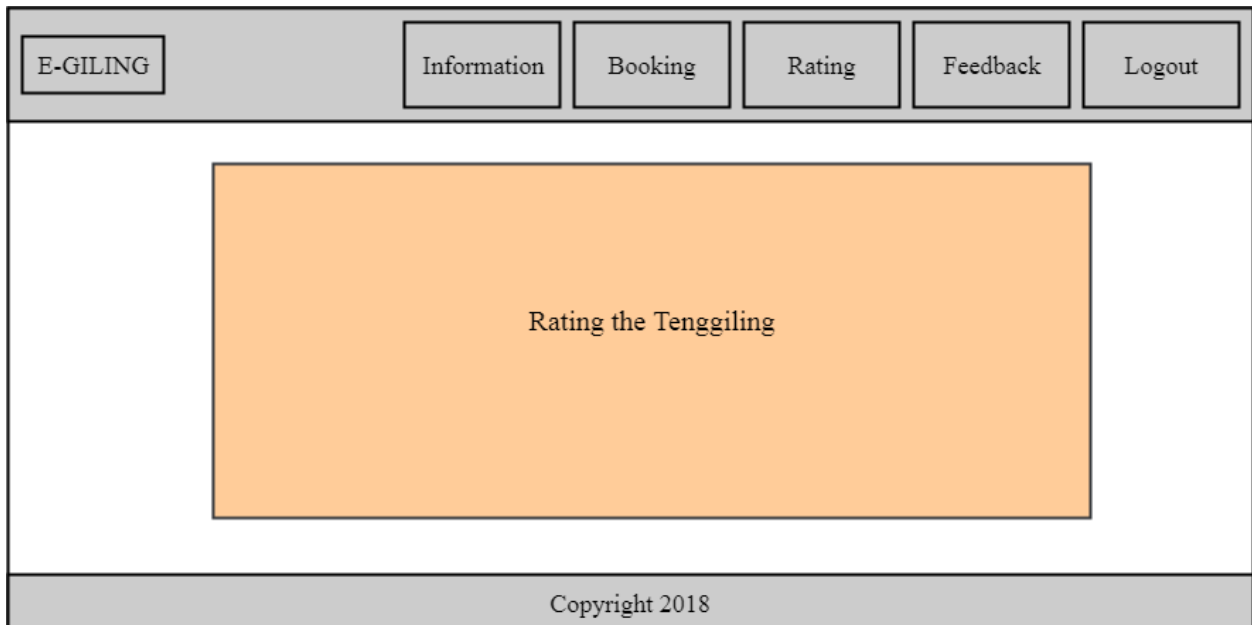


Figure 20: Tenggiling rating interface

11.2.6 Student Feedback

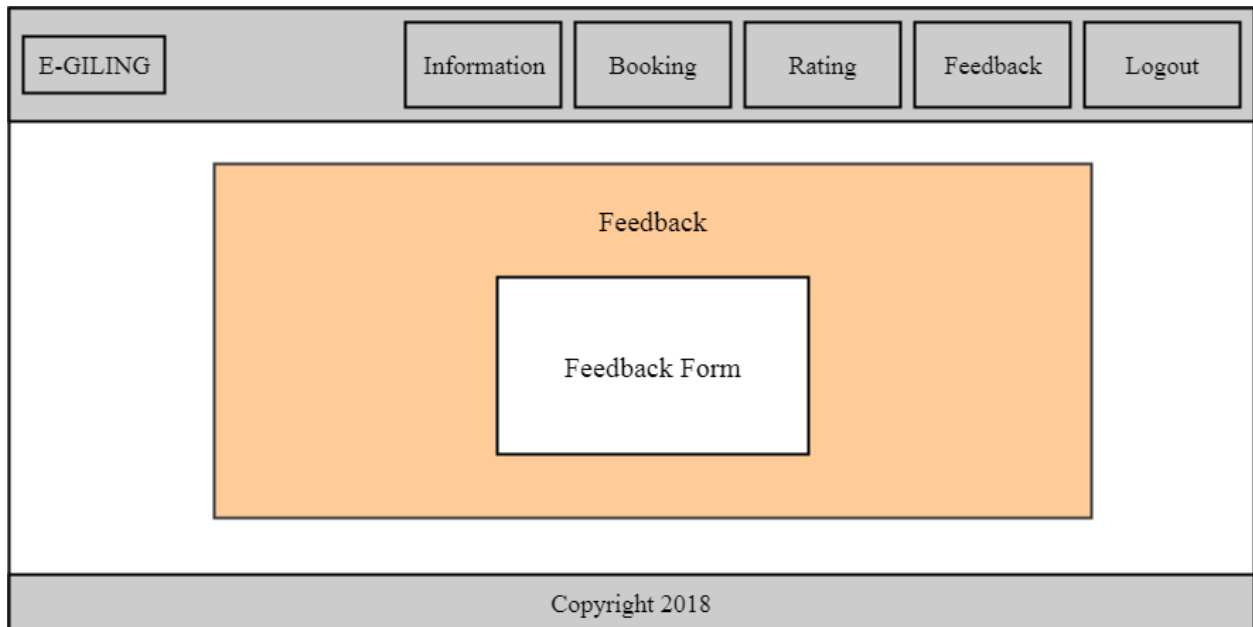


Figure 21: Student feedback interface

11.3 Tenggiling Driver

11.3.1 Driver Main Interface

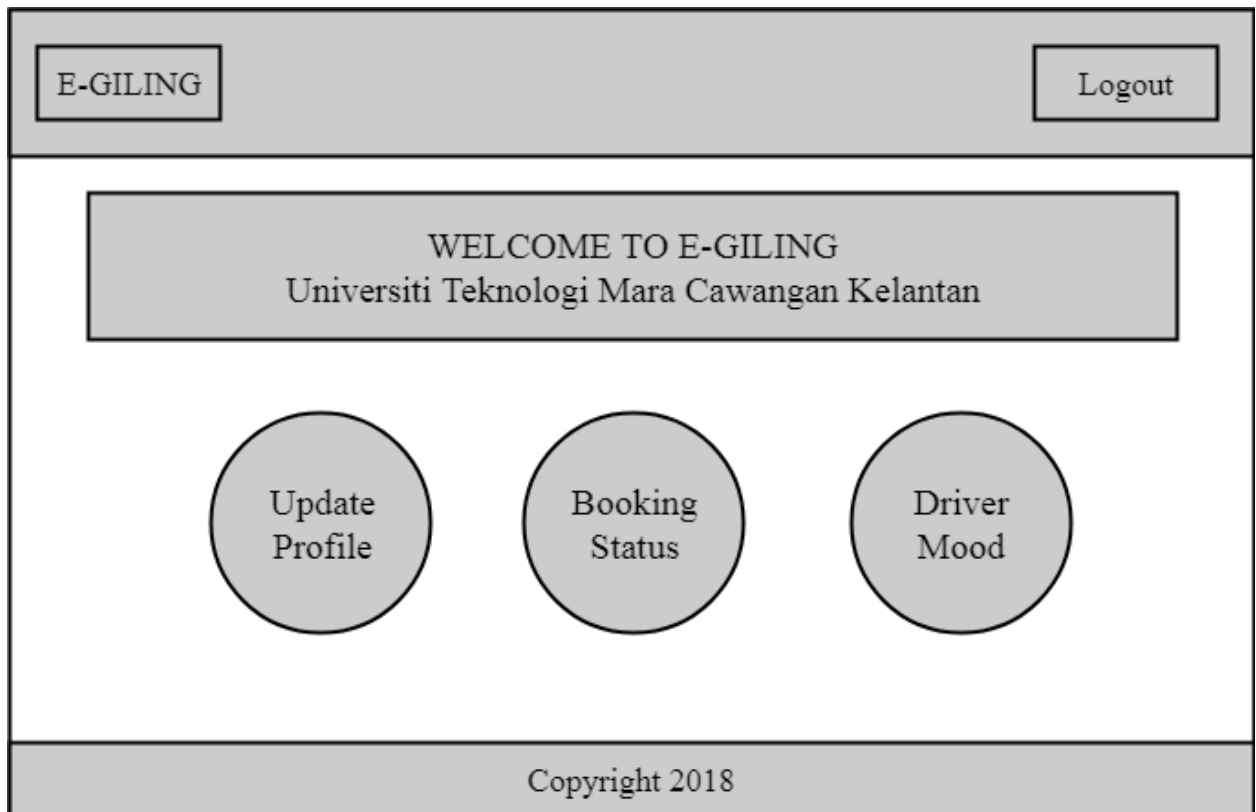


Figure 22: Driver main interface

11.3.2 Driver Profile

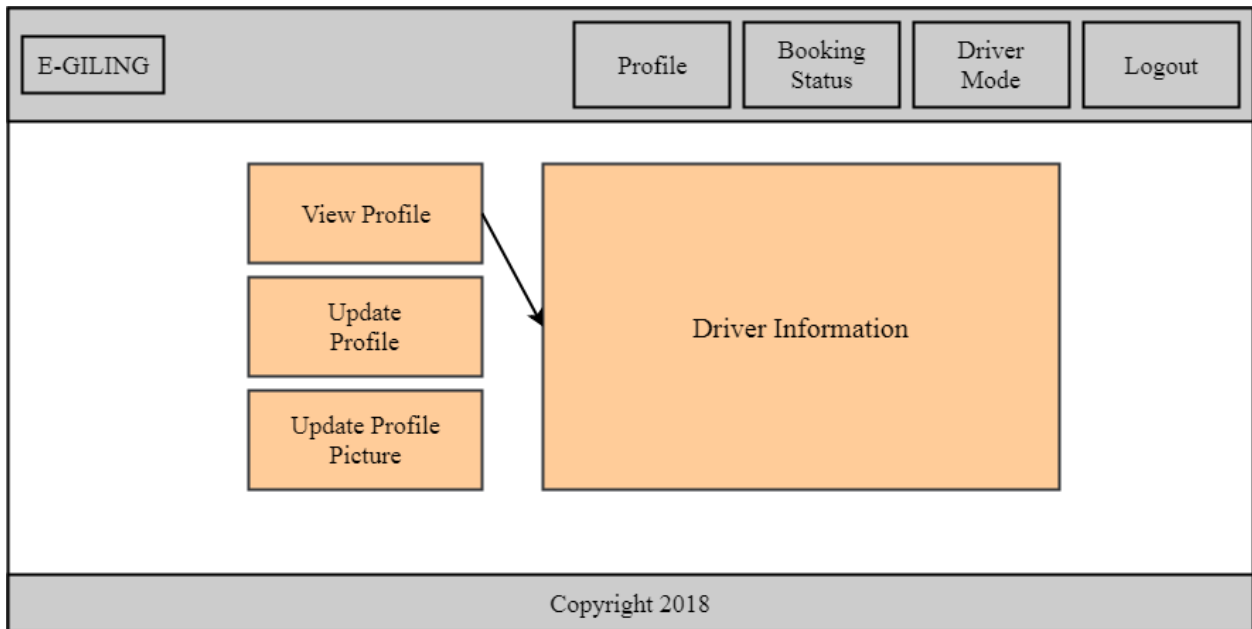


Figure 23: Driver profile interface

11.3.3 Update Driver Profile

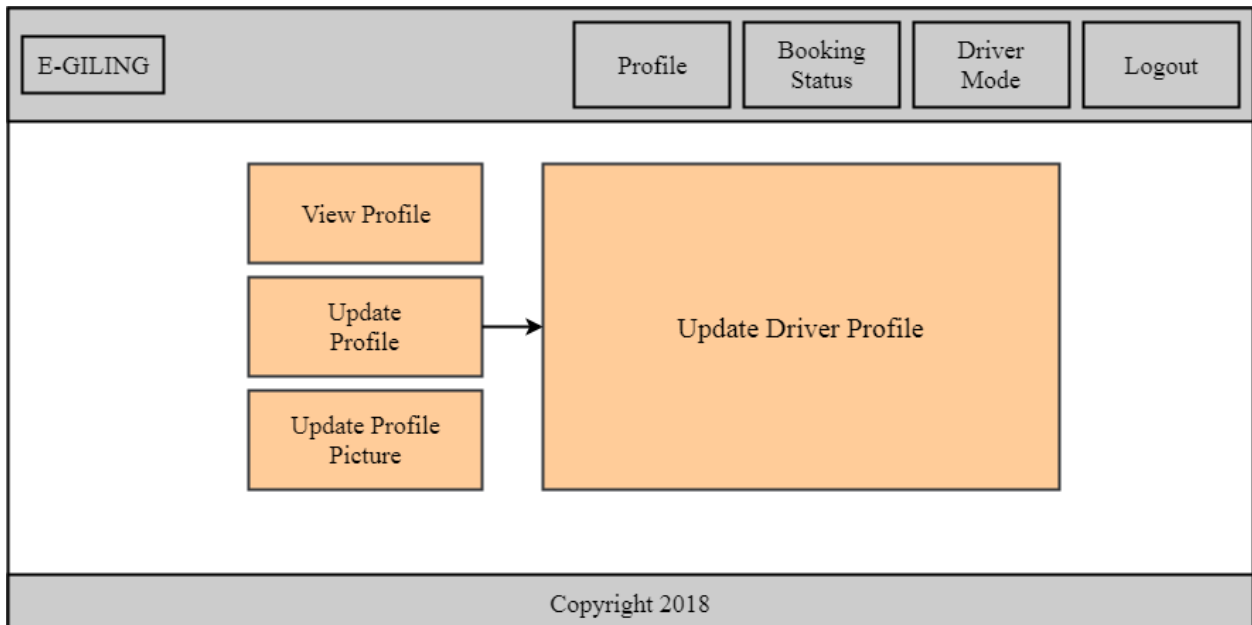


Figure 24: Driver update profile interface

11.3.4 Update Driver Profile Picture

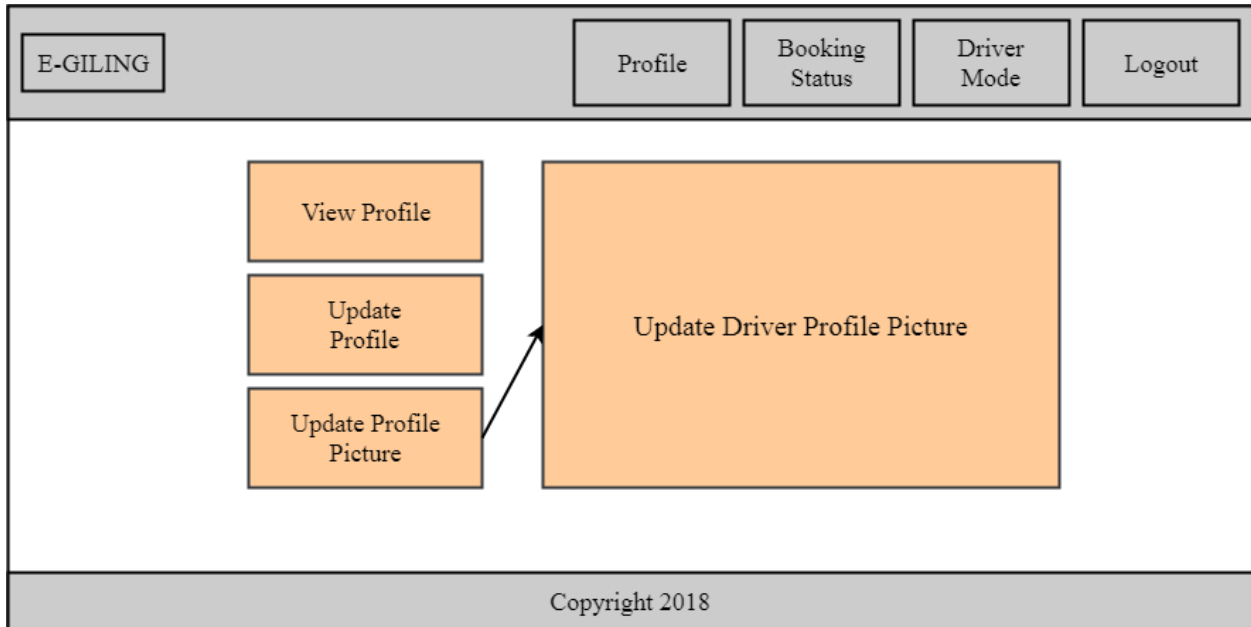


Figure 25: Driver profile picture update interface

11.3.5 Booking List

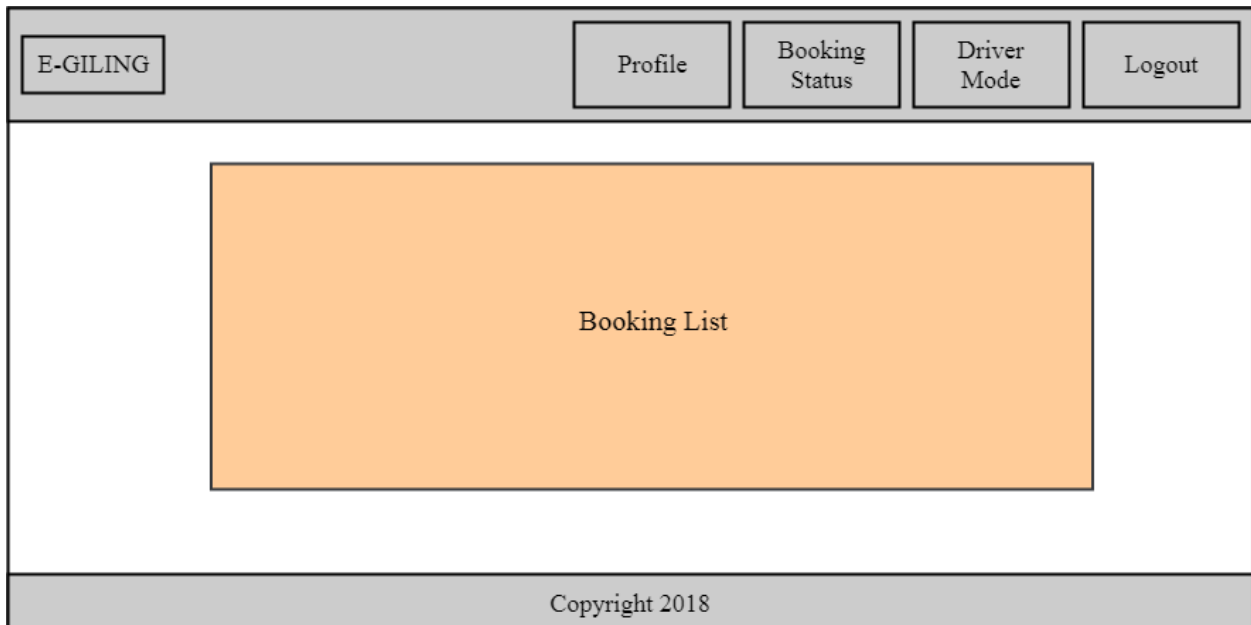


Figure 26: Booking list interface

11.3.6 Driver Register the Trip Session

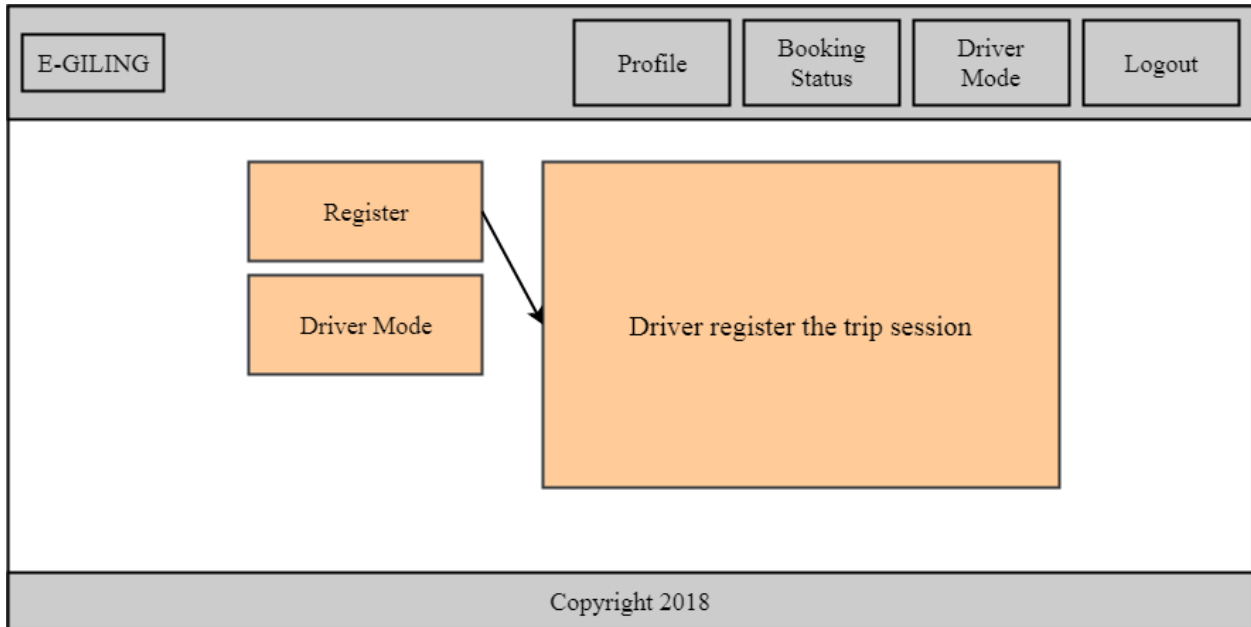


Figure 27: Trip session registration interface

11.3.7 Driver Mode

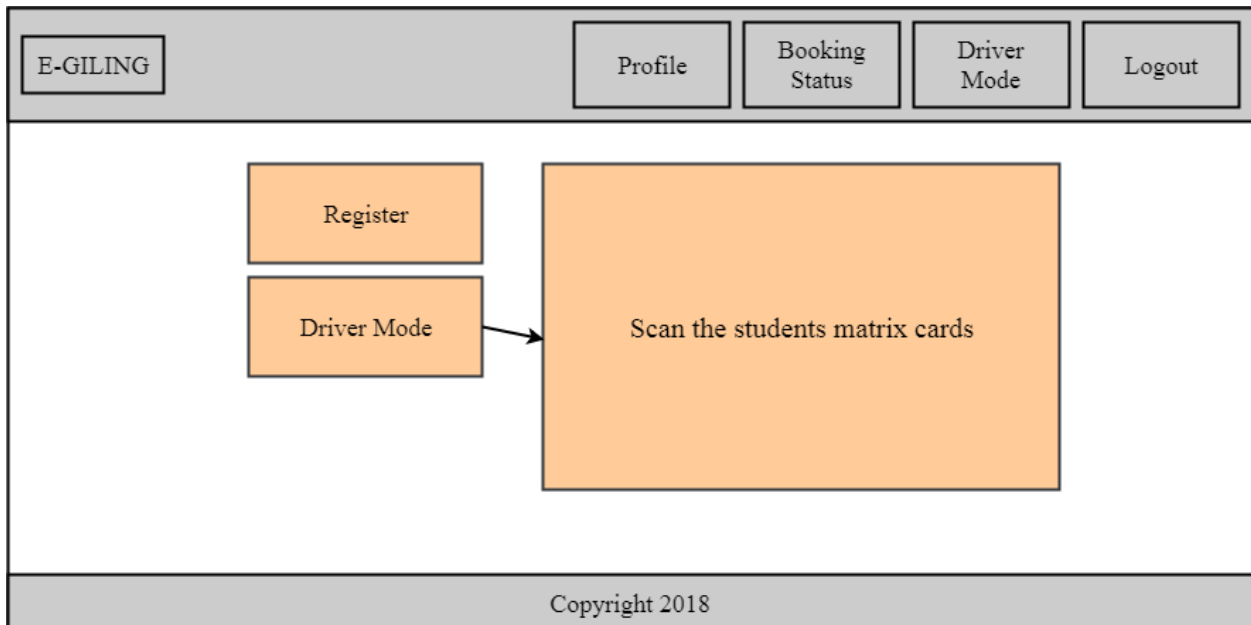


Figure 28: Driver mode interface

12.0 NAVIGATION

12.1 Admin Navigation Chart

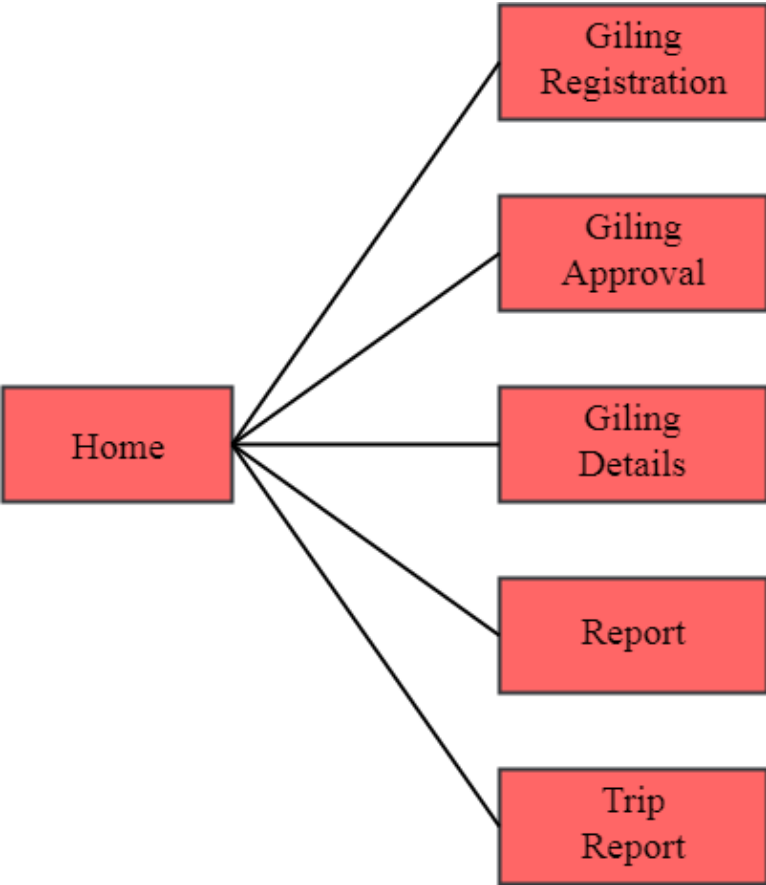


Figure 29: Admin navigation chart

12.2 Student Navigation Chart

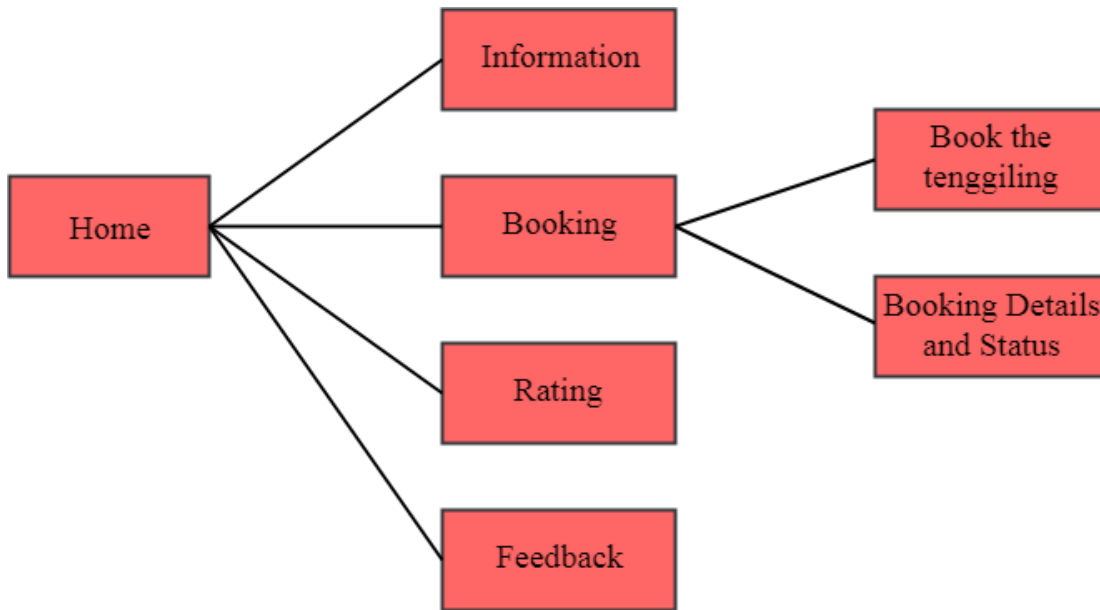


Figure 30: Student navigation chart

12.3 Driver Navigation Chart

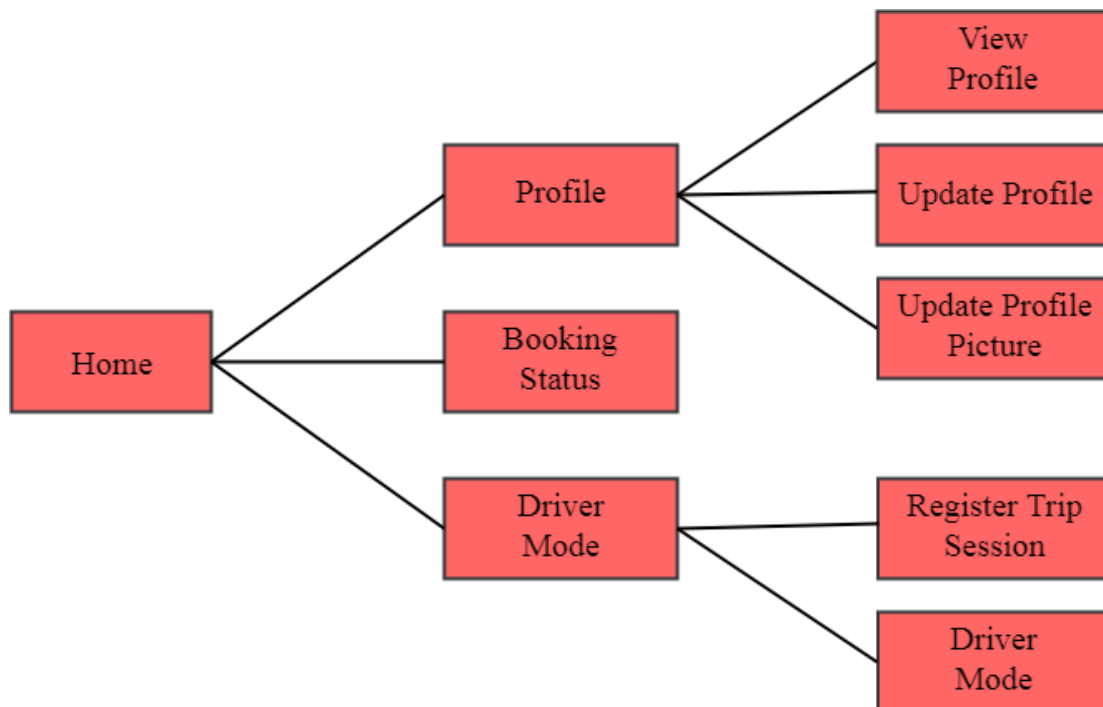


Figure 31: Driver navigation chart

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