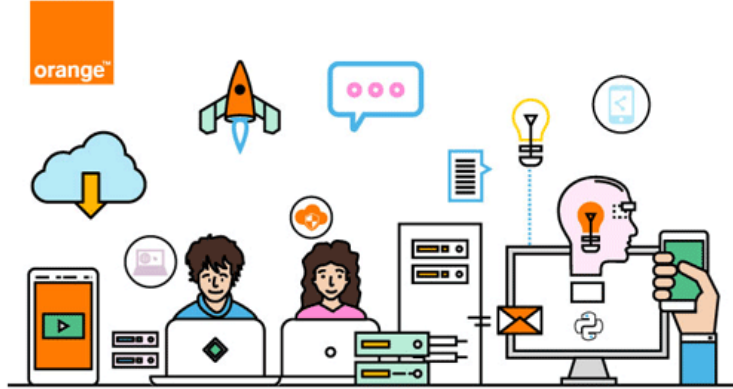# Orange Coding Academy

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أكاديمية البرمجة
Coding Academy

**Software Requirement Specification
(SRS)**

3alTareeg Website

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**Date:
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Version 1.0.0

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1. INTRODUCTION

1.1 PURPOSE
The purpose of this document is to provide a detailed overview of the 3alTareeg Website. It will explain the purpose and features of the website, the interfaces of the website, what the website will offer to the customers.

1.2 INTENDED AUDIENCE AND PERTINENT SECTIONS
This document is intended for any party that wants to display its ads, the drivers who ready to display these ads, project managers, developers, testers, document writers, and project stakeholders.

1.3 PROJECT SCOPE
The scope of this project, is to provide an opportunity for any party to make their advertising more effectively, and at the same time to provide the drivers with additional income, by providing a safe environment to preserve the rights of both parties.

1.4 DOCUMENT CONVENTIONS
Bold-faced text has been used to emphasize section and sub-section headings.

1.5 REFERENCES

1. Eni Sinanaj 2017, *Writing a software requirements specification document*, Medium, < https://medium.com/@enisinanaj/writing-a-software-requirements-specification-document-97d622805aef>.
2. Ravi Bandakkanavar 2018, *Software Requirements Specification document*, Krazytech, < https://krazytech.com/projects/sample-software-requirements-specificationsrs-report-airline-database>.
3. Ashiqur Rahman 2018, *SOFTWARE REQUIREMENTS SPECIFICATION: WHAT IT IS AND WHY IT IS IMPORTANT*, Nascenia, < https://www.nascenia.com/the-importance-of-software-requirements-specification/>.
4. Kark E. Wiegers 2002, *Software Requirements Specification*, < http://www4.comp.polyu.edu.hk/~cstyng/data.06/srs_template.pdf>.
5. Nishadha 2018, *Use Case Diagram Guidelines for Better Use Cases*, Creately, < https://creately.com/blog/diagrams/use-case-diagram-guidelines>.
6. Nishadha 2019, *Use Case Diagram Tutorial (Guide with Examples)*, Creately, < https://creately.com/blog/diagrams/use-case-diagram-tutorial>.

2. DESCRIPTION

2.1 PRODUCT PERSPECTIVE

In 2019, more than thirty thousand trips completed each day at the very least in Jordan using whether a classic taxi or mobile applications such as Careem and Uber. From this point on, the idea of 3alTareeg appears, which is based on exploiting these trips in marketing and advertising, by providing an opportunity to the companies to display their ads in the drivers' cars directly to the riders by connecting the drivers and the companies through 3alTareeg website managed by a third party.

2.2 FEATURES

The main features of this project are:
- Users can register as Company or Driver.
- Companies can submit a request online by choosing one of the available packages.
- Companies can track their requests status whether its pending, approved, or declined.
- Drivers are up to date with the products and ads that they should display in their cars.
- Admins have the access to manage all the registered users, in addition to manage all the submitted requests.

2.3 USER OVERVIEW

3alTareeg Website will support two types of users: Companies which are any party want to display its ads, and Drivers which are any driver who will display these ads in his car. The company should be able to do the following functions:
- Make a request to display their ads in the drivers' cars.
- Track the status of any submitted request.
- To view their personal information's.

The driver should be able to:
- View the ads that he should display in his car.
- View his personal information's.

Each driver has a limited number of ads that could display in his car.

2.4 OPERATING ENVIRONMENT

Operating environment for the 3alTareeg Website is as listed below:

- Client/Server system.
- Operating system: any operating system can support this system as it is not particularly software or hardware dependent.
- Database: SQL database.
- Platform: JavaScript/PHP.
- Tablet: any tablet to display the ads (for drivers).

2.5 CONSTRAINTS: IMPLEMENTATION / DESIGN

Design and implementation constraints are listed below:
- The global schema.
- SQL commands for queries.
- Implementing the database at least using a centralized database management system.

2.6 USER DOCUMENTATION

Along with the software product, a user manual would be written to help people understand the working methodology and usage of the developed prototype system. It would be written for nontechnical individuals and the level of content or terminology would differ considerably from, for example, a System Administration Guide, which is more detailed and complex. The user manual would follow common user documentation styles capturing purpose and scope of the product along with key system features and operations; step-by-step instructions for using the system.

2.7 ASSUMPTIONS / DEPENDENCIES

There is only one assumption, that is the driver will operate the tablet as long as he drives, for average duration 6 hours/day.

3. SYSTEM FEATURES

3.1 Registration

DESCRIPTION	Users (Companies and Drivers) could register on the website with different require information's.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ Click on register button. Response: ▪ The website shall ask the user for some related information's. ▪ The website shall confirm the email and password are acceptable. ▪ The website shall store the information's in the database.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall allow users to register. ▪ The website shall save the users details to a database service.

3.2 Login

DESCRIPTION	Users (Companies, Drivers, and Admins) could login on the website if they are registered before.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ User clicks on login button. Response: ▪ The website shall require the user for email and password. ▪ The website will verify the email and password, and the user will be considered logged-in.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall allow users to login. ▪ The website shall identify each user by a user account. ▪ Each user shall be able to access the website through the account.

3.3 Ad request submission

DESCRIPTION	Companies could submit a request to display their ads.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ User Clicks on Packages. Response: ▪ The website shall ask the company to choose from different available packages. ▪ The website shall ask the company to fill the requested form with required information's. ▪ The website shall ask the company to confirm the request.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall allow the company to submit an ad request. ▪ The website shall save the ad request details to a database service.

3.4 Requests status.

DESCRIPTION	Companies could track the status of all requests.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ User clicks on Requests. Response: ▪ The website shall display all the requests with its status.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall allow the company to view all of his submitted requests and its status.

3.5 Ads displayed for driver.

DESCRIPTION	Drivers could access the ads that will be displayed in his car.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ User clicks on my ads. Response: ▪ The website shall display all the ads related to the driver.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall allow the driver to view all ads related to him.

3.6 Admin management for Companies.

DESCRIPTION	Admins could access all companies and its requests.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ Users clicks on my Companies requests. Response: ▪ The website shall display all the companies request. Stimulus: ▪ User clicks on Approve/Reject Response: ▪ The website shall ask to confirm the action. ▪ The website shall take action whether its approved or rejected. Stimulus: ▪ User clicks on Companies Response: ▪ The website shall display all companies and its details. Stimulus: ▪ User input any name and clicks on Search button. Response: ▪ The website shall display the company of searched name.
FUNCTIONAL REQUIREMENTS	▪ The website shall be internet oriented and require an online server. ▪ The website shall display all registered companies and its requests. ▪ The website shall allow the admin to manage the requests. ▪ The website shall allow the admin to search for any company.

3.7 Admin management for Drivers.

DESCRIPTION	Admins could access all drivers and its joining requests.
STIMULUS / RESPONSE SEQUENCES	Stimulus: ▪ Users clicks on my Drivers requests. Response: ▪ The website shall display all the Drivers request. Stimulus: ▪ User clicks on Approve/Reject Response: ▪ The website shall ask to confirm the action. ▪ The website shall take action whether its approved or rejected. Stimulus: ▪ User clicks on Drivers Response: ▪ The website shall display all drivers and its details.

	Stimulus: ■ User input any name and clicks on Search button. Response: ■ The website shall display the driver of searched name.
FUNCTIONAL REQUIREMENTS	■ The website shall be internet oriented and require an online server. ■ The website shall display all registered drivers and its joining requests. ■ The website shall allow the admin to manage the joining requests. ■ The website shall allow the admin to search for any driver.

4. REQUIREMENTS OF EXTERNAL INTERFACE

4.1 USER INTERFACES

The user interface for the website shall be compatible to any browser such as Internet Explorer, Mozilla or Netscape Navigator by which user can access to the system.

4.2 Use Case Diagram
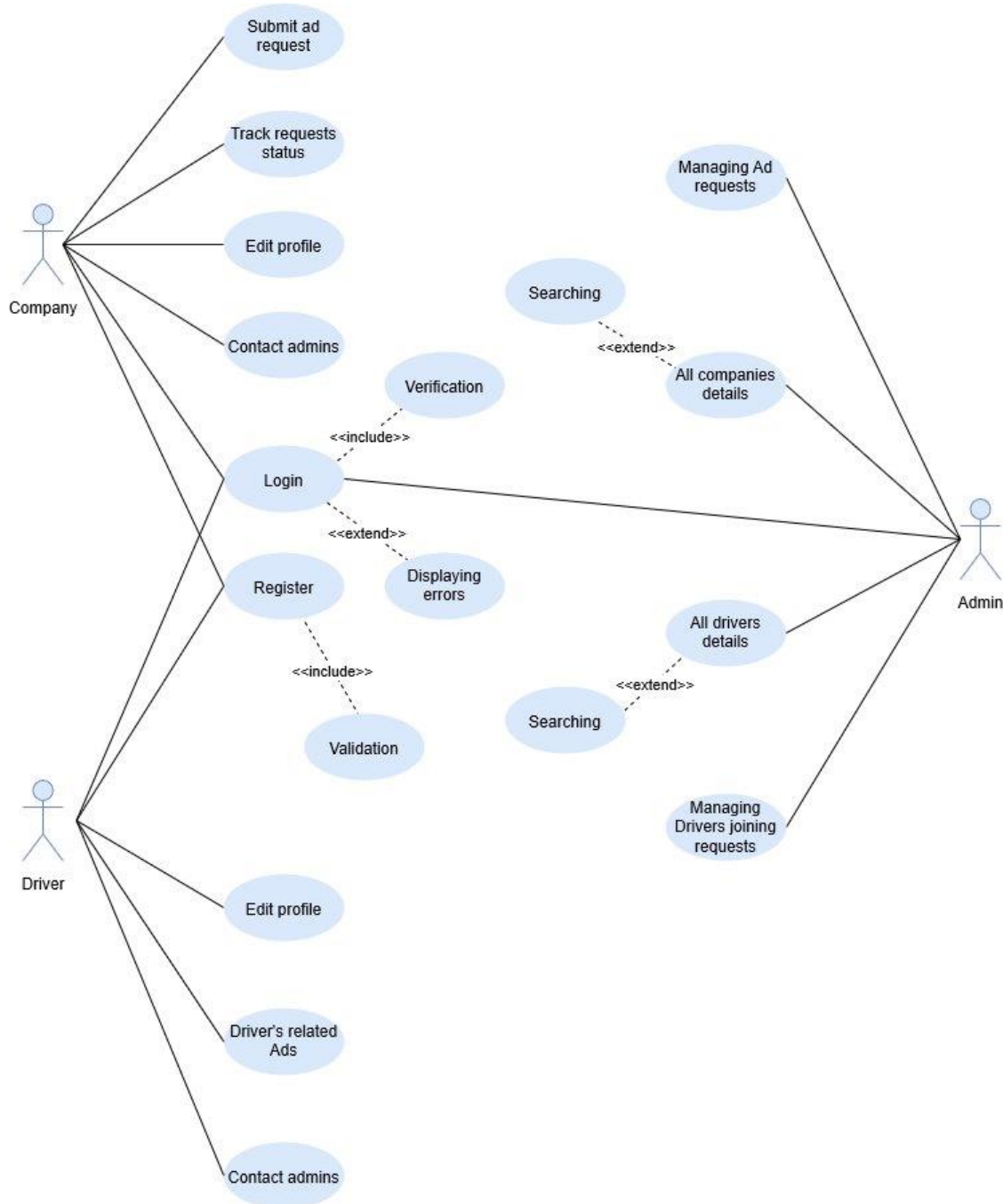
Figure 4.1: Use Case Diagram For 3alTareeg Website.

4.3 Class Model
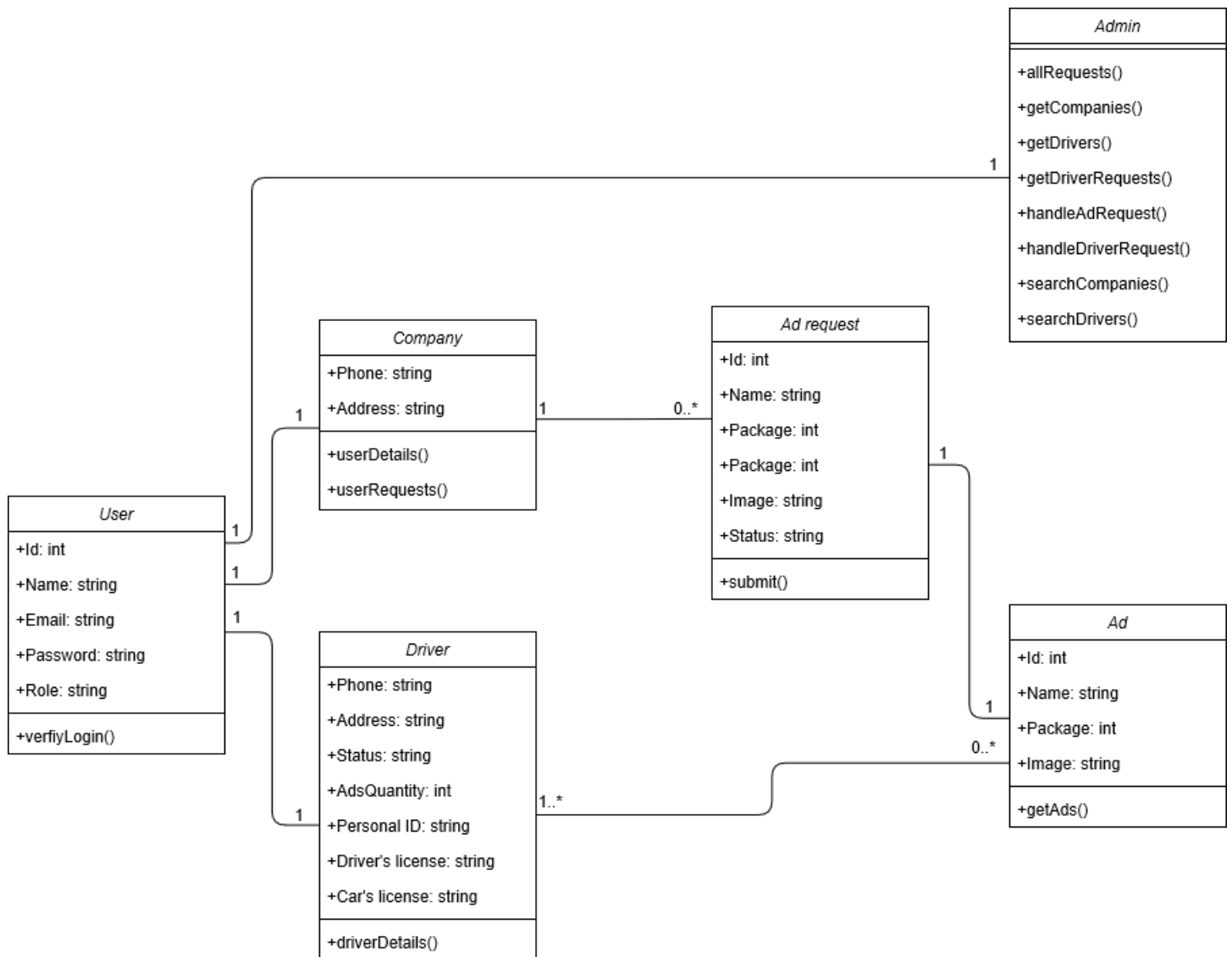
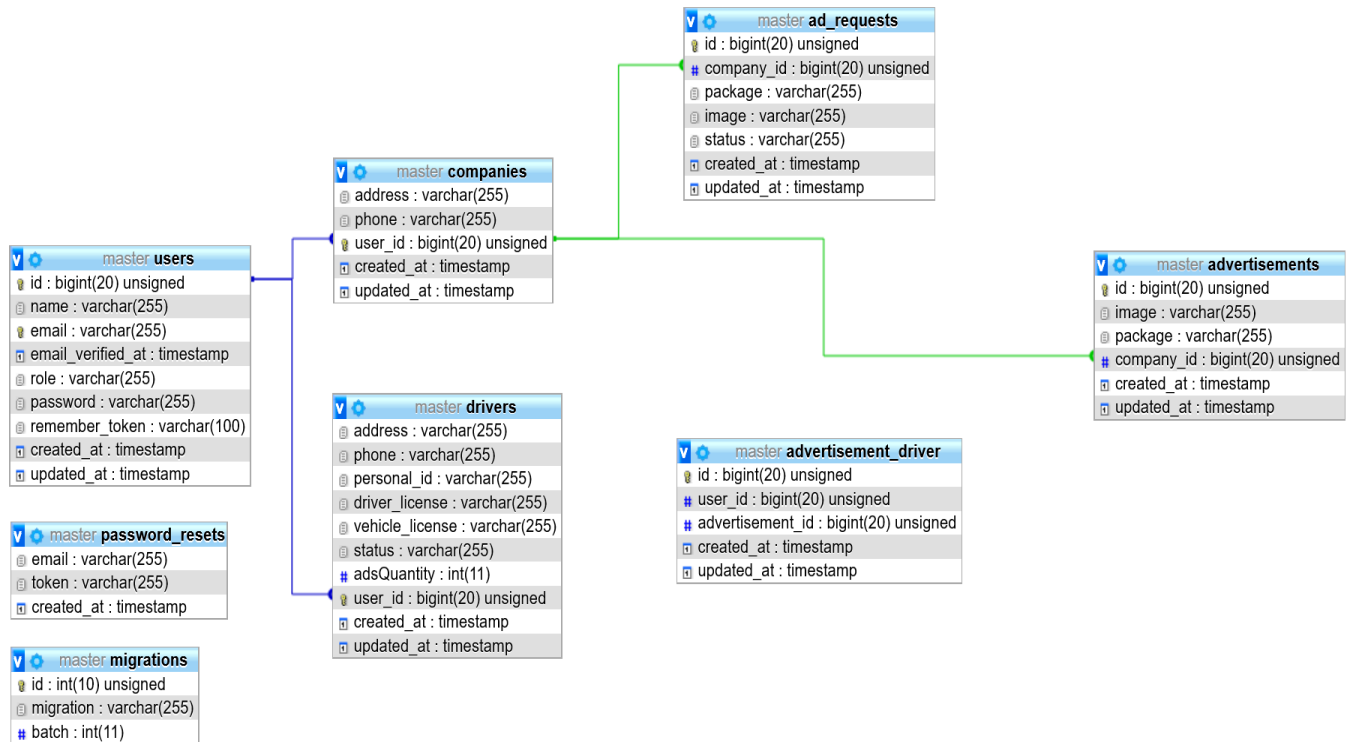**Figure 4.2: Class Model Diagram For 3alTareeg Website.**

4.4 Database Design

Figure 4.3: Database Design For 3alTareeg Website.

4.5 HARDWARE INTERFACES

Since the website must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system.

4.6 SOFTWARE INTERFACES
The following are the tools and database that should be used for the development:

- HTML
- CSS
- JavaScript
- React
- Bootstrap
- Laravel
- MySQL
- PHP
- Apache
- phpMyAdmin
- Axios

4.7 COMMUNICATION INTERFACES

The website shall use the HTTP protocol for communication over the internet and for the intranet communication will be through TCP/IP protocol suite. in addition to any web browser.

5. ADDITIONAL NONFUNCTIONAL REQUIREMENTS

5.1 PERFORMANCE

The system is required a fair amount of speed especially while browsing.

5.2 SAFETY

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

5.3 SECURITY

The main security concern is for users account hence proper login mechanism should be used to avoid hacking. The online registration system shall not disclose personal information of users to unauthorized users or the public.

5.4 SOFTWARE QUALITY

- Speed and Latency requirements, the system is required a fair amount of speed.
- Reliability and Availability requirements.
- Robustness or Fault Tolerance Requirements.

6. APPENDICES

APPENDIX A: GLOSSARY OF TERMS

Table A.1: Glossary of Terms.

Term	Definition
Company	Any party want to display its ads.
Driver	Any driver who will display the companies' ads in his car.
Database	Collection of all the information monitored by this system.
Software Requirements Specification	A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document.
Stakeholder	Any person with an interest in the project who is not a developer.
User	Company or Driver.
HTTP	Hypertext Transfer Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
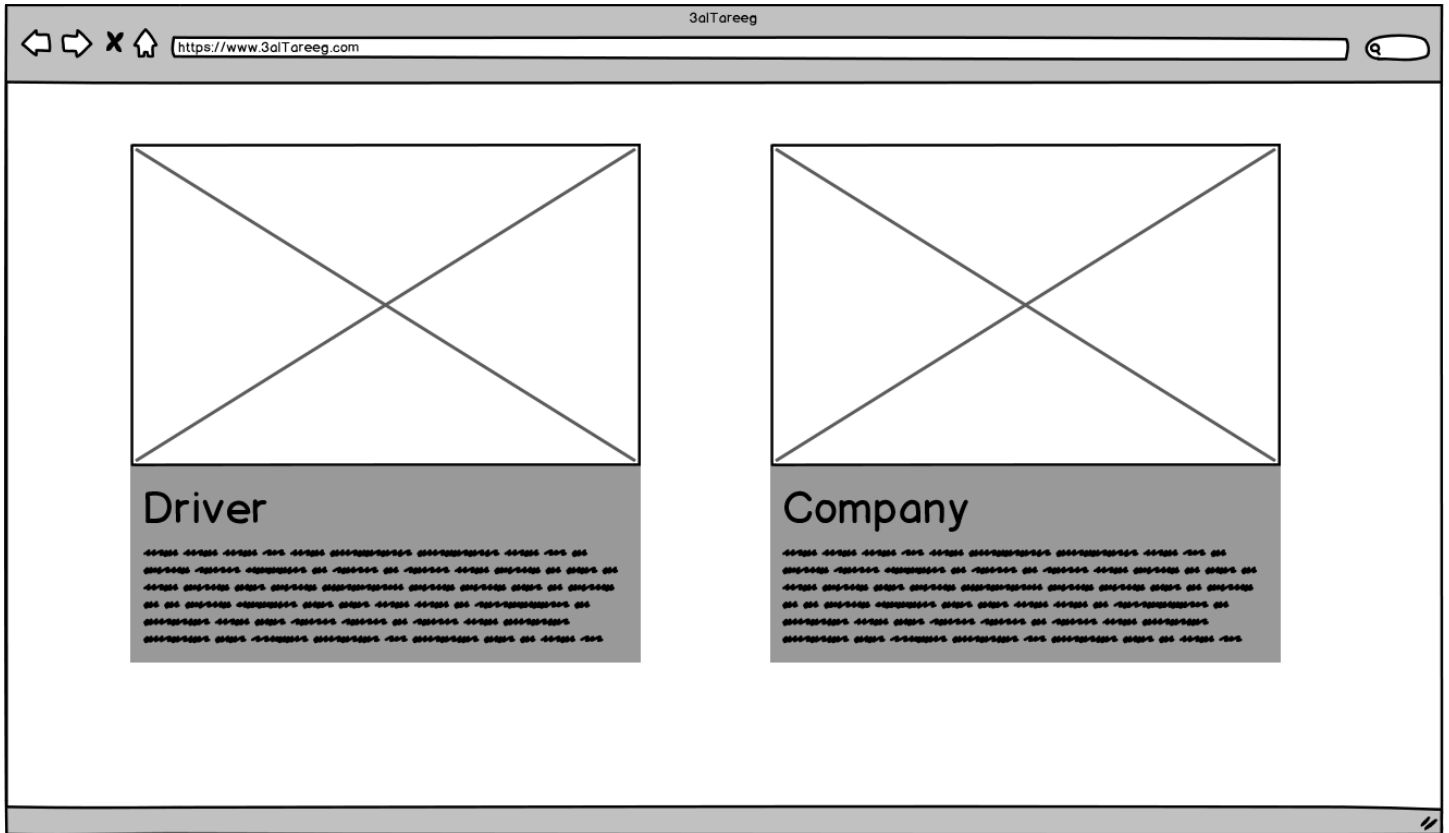
B-1. Wireframe:

Figure B.1: Landing Page.

Figure B.2: Login Page.

Figure B.3: Sign Up Page.
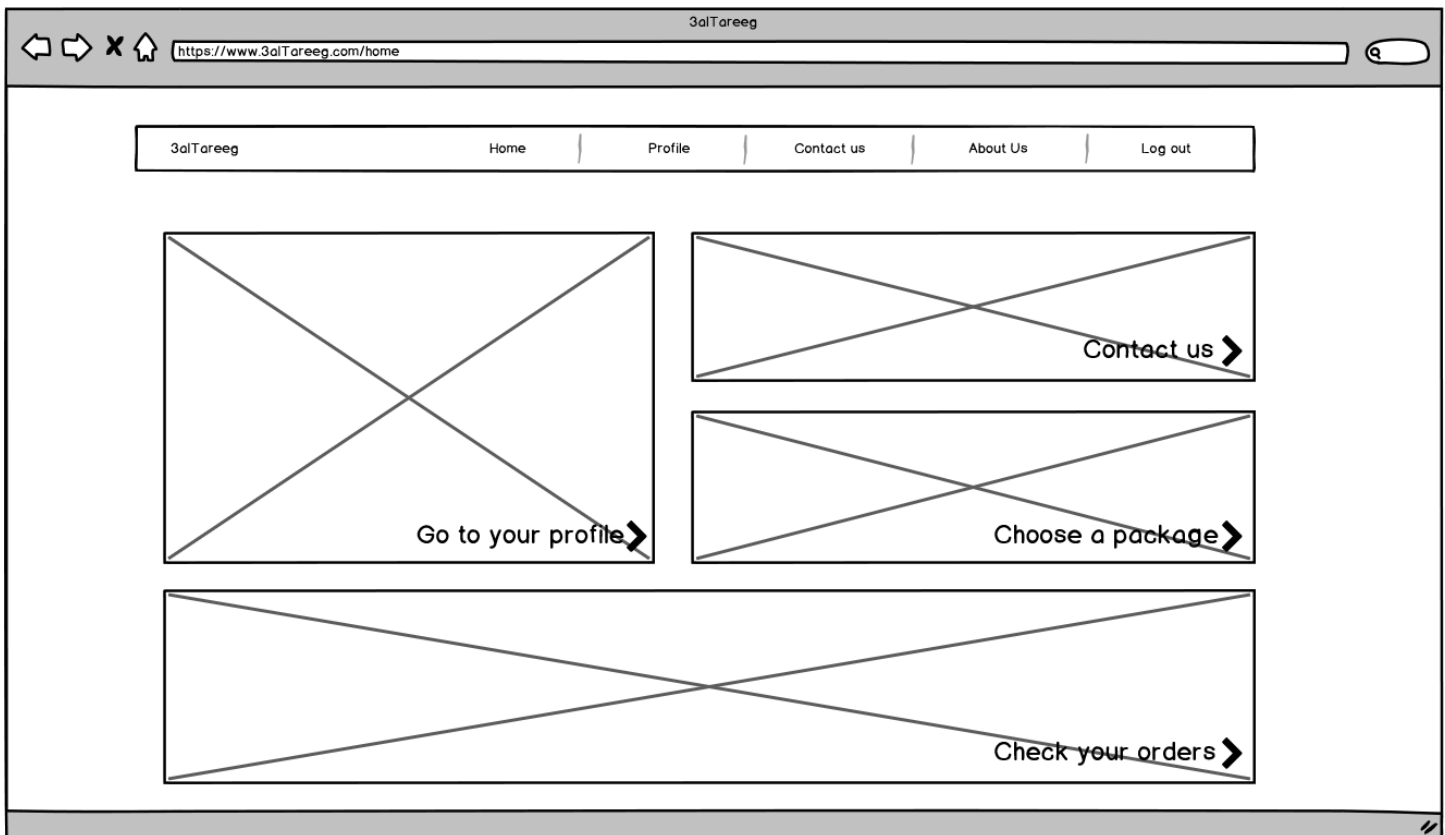
Figure B.4: Company Home Page.
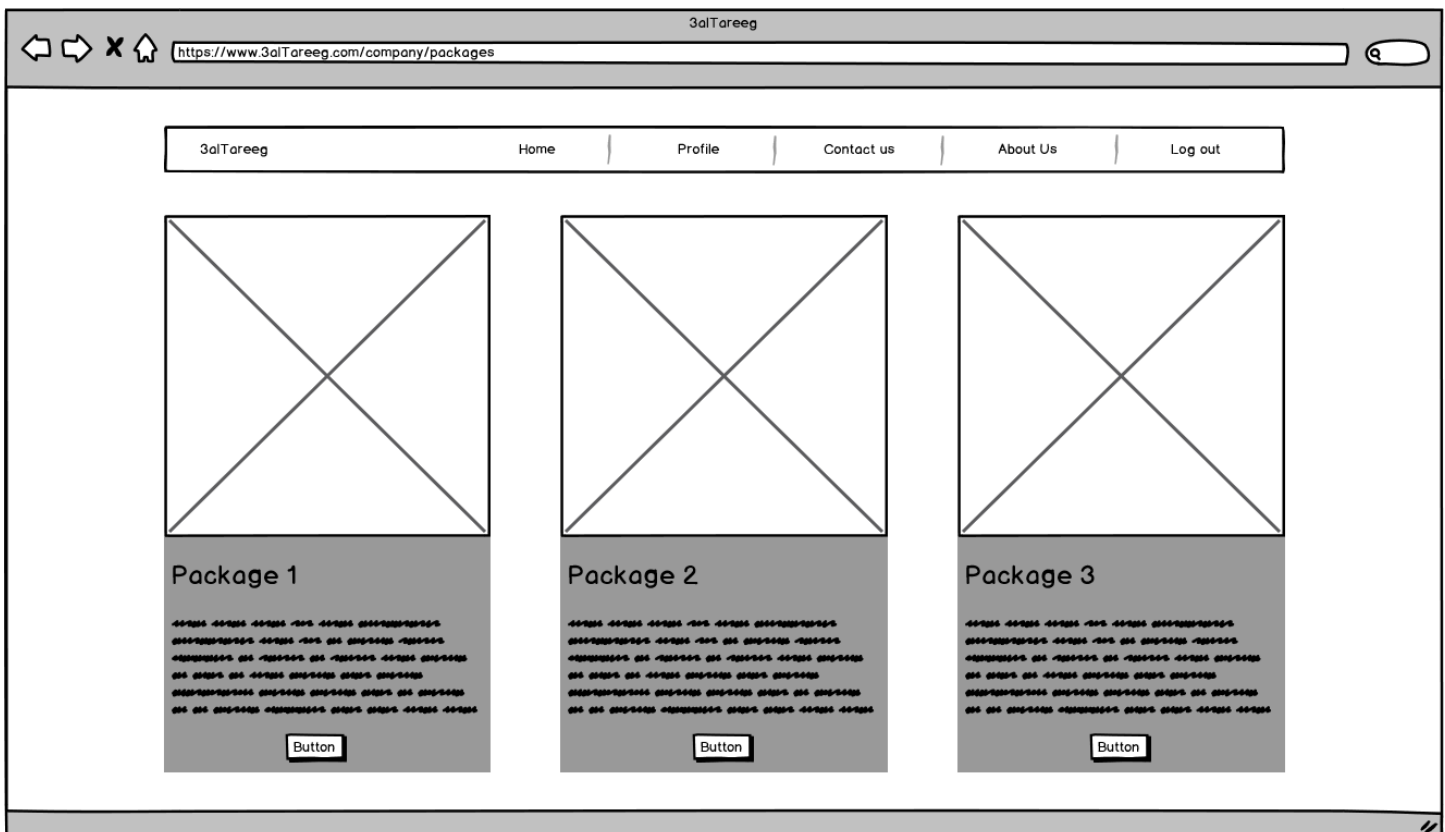
Figure B.5: Company Packages Page.

Figure B.6: Company Form Request Page.

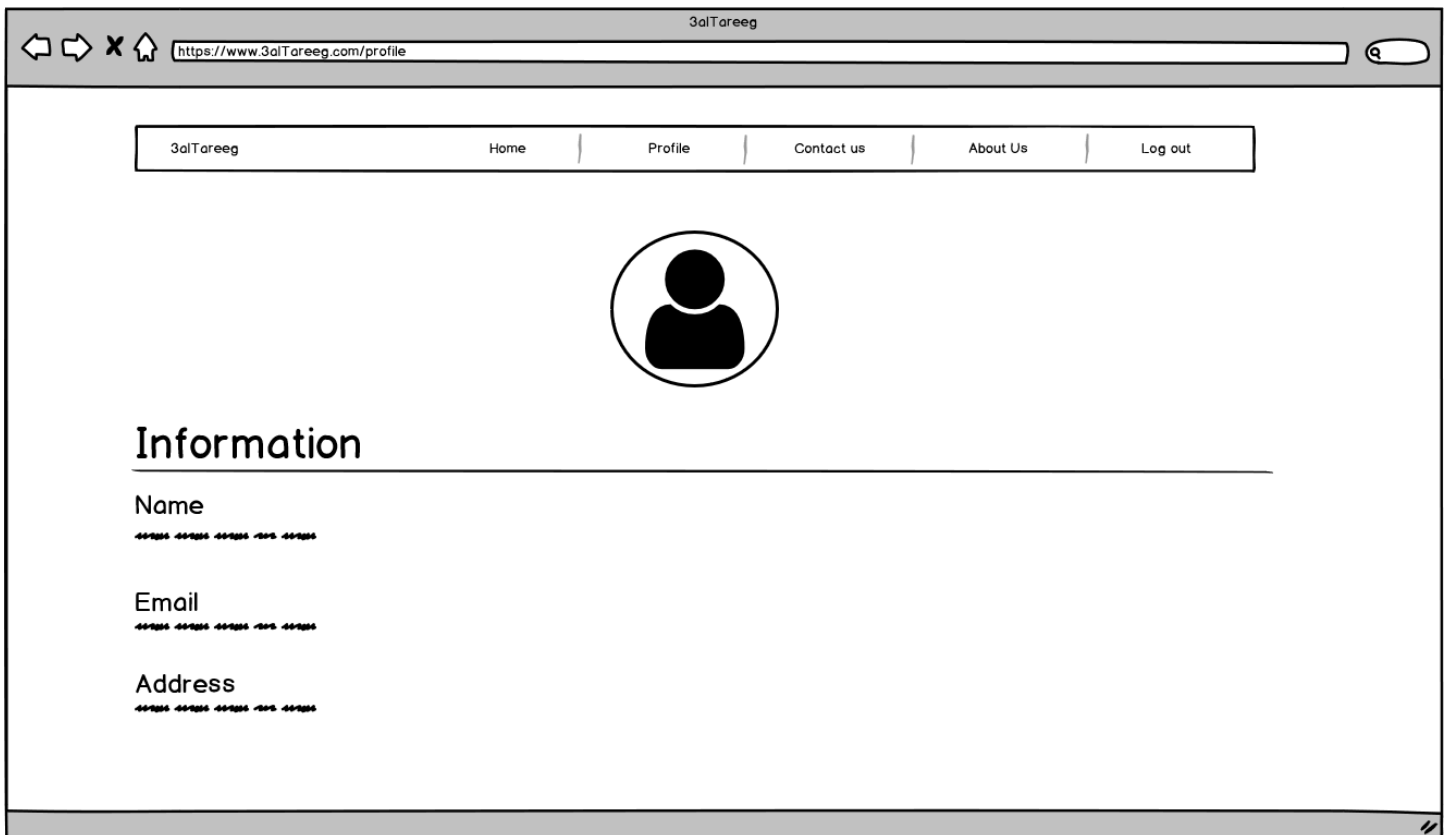**Figure B.7: Company Requests Page.**

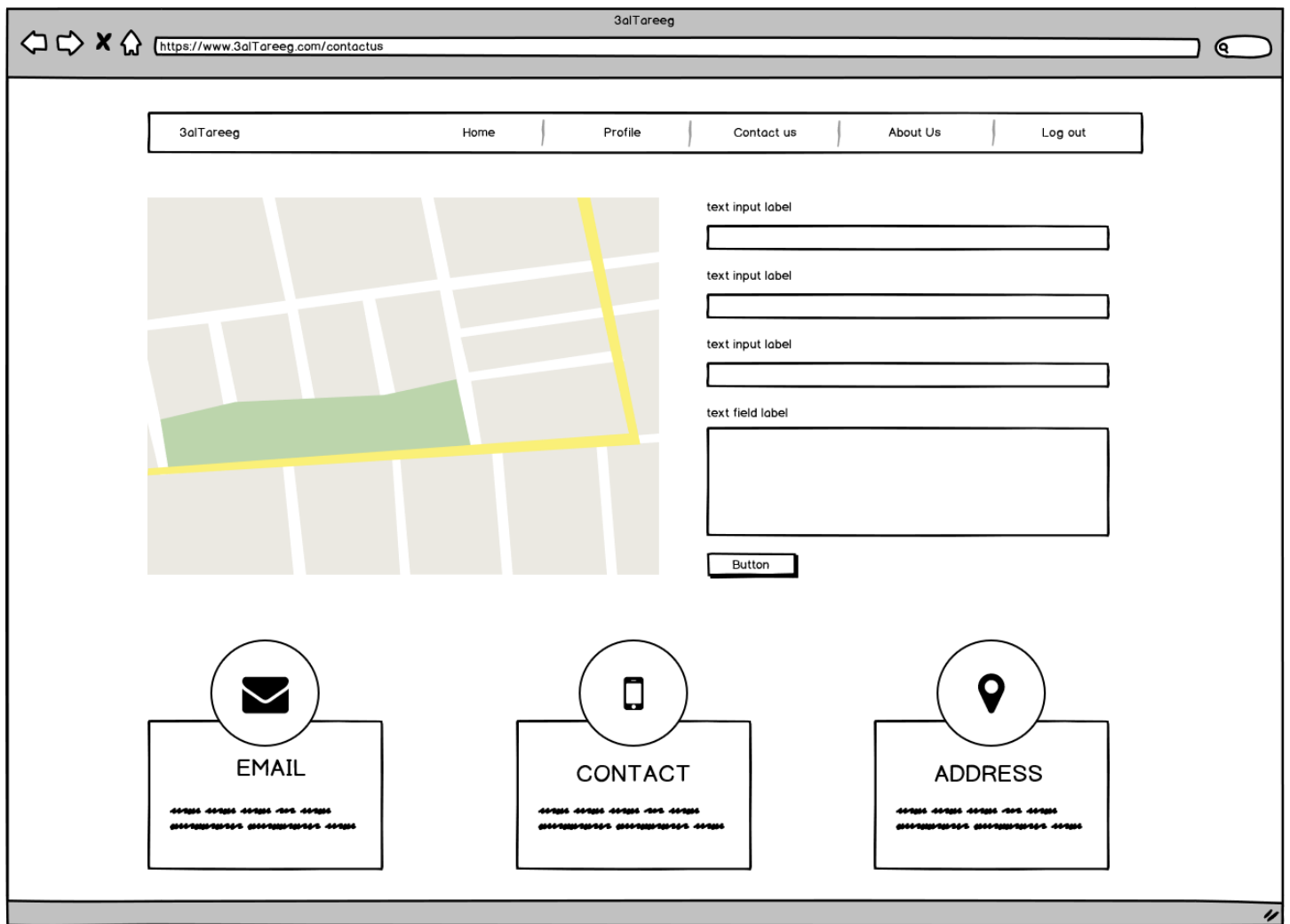**Figure B.8: Company/Driver Profile Page.**

Figure B.9: Contact Us Page.
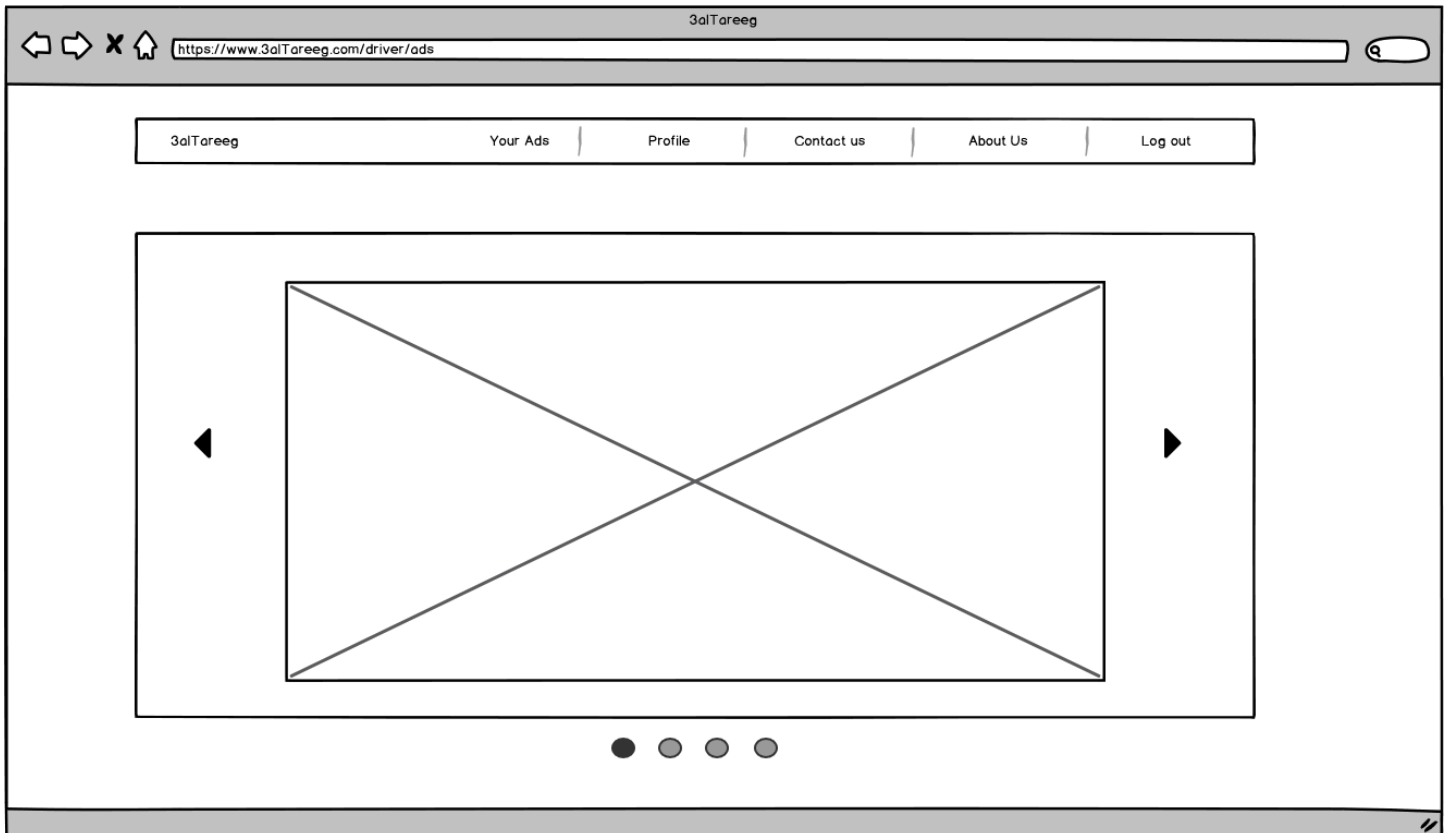
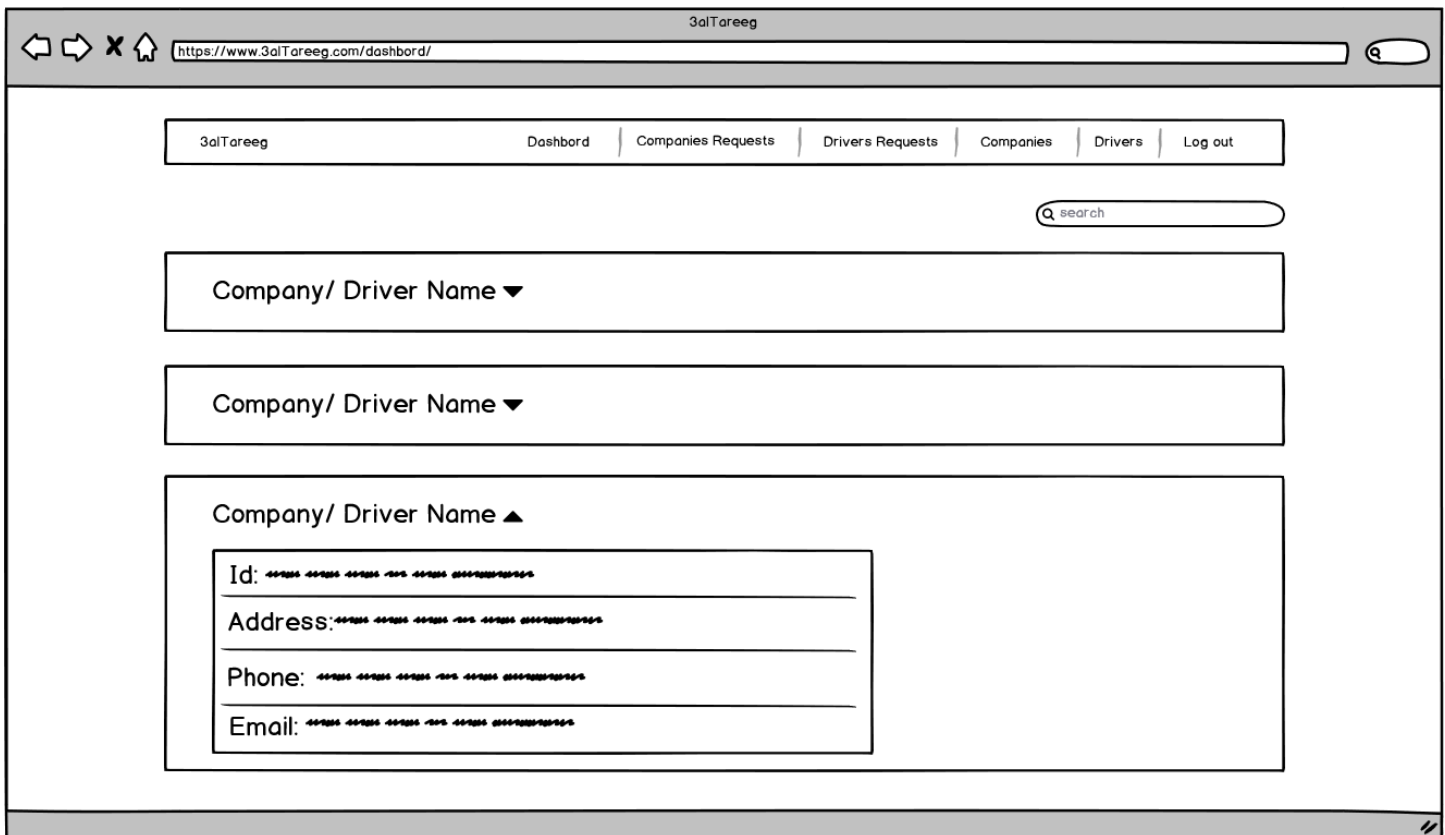**Figure B.10: Driver Ads Page.**
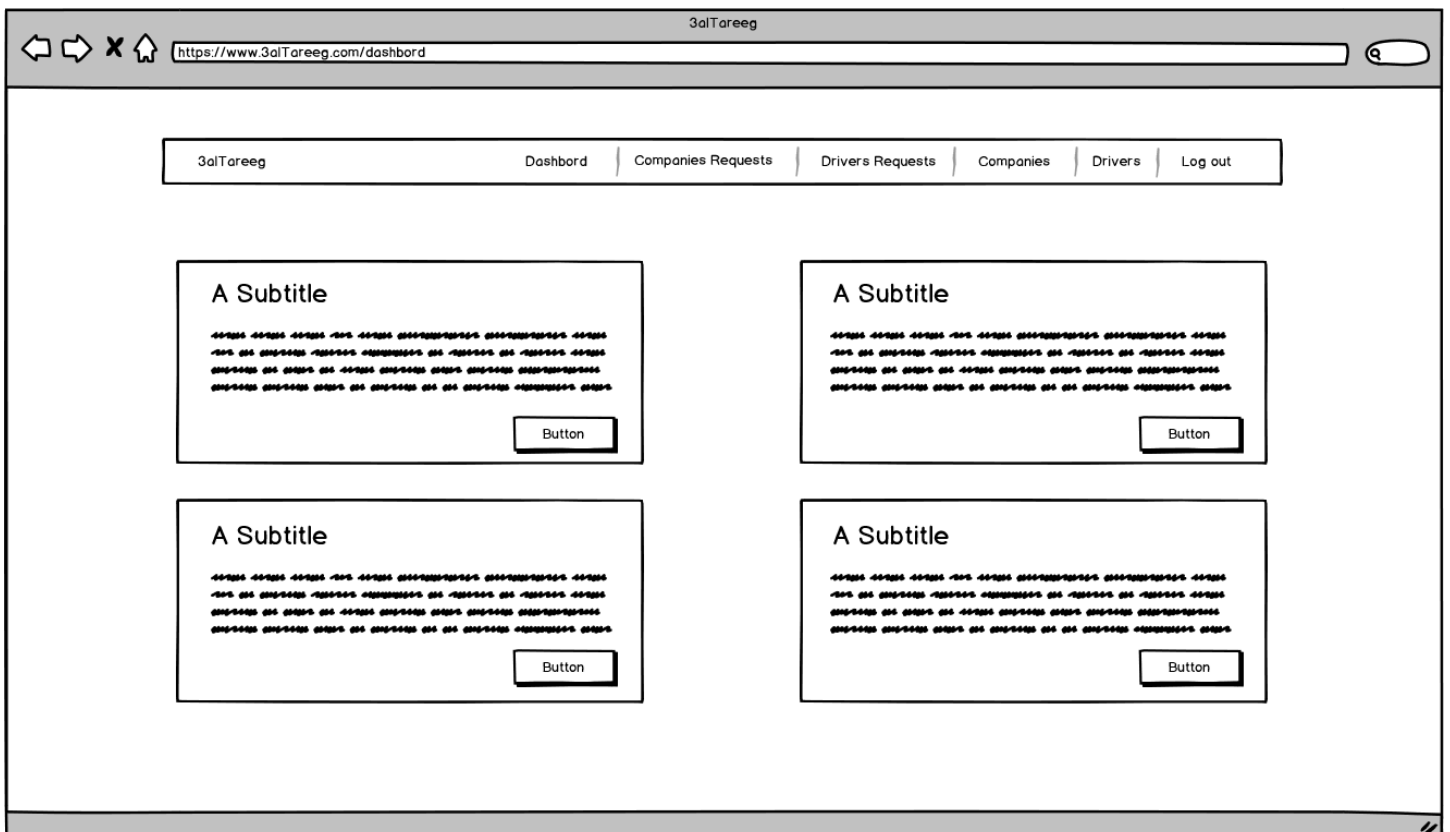
Figure B.11: Admin Dashboard Page.

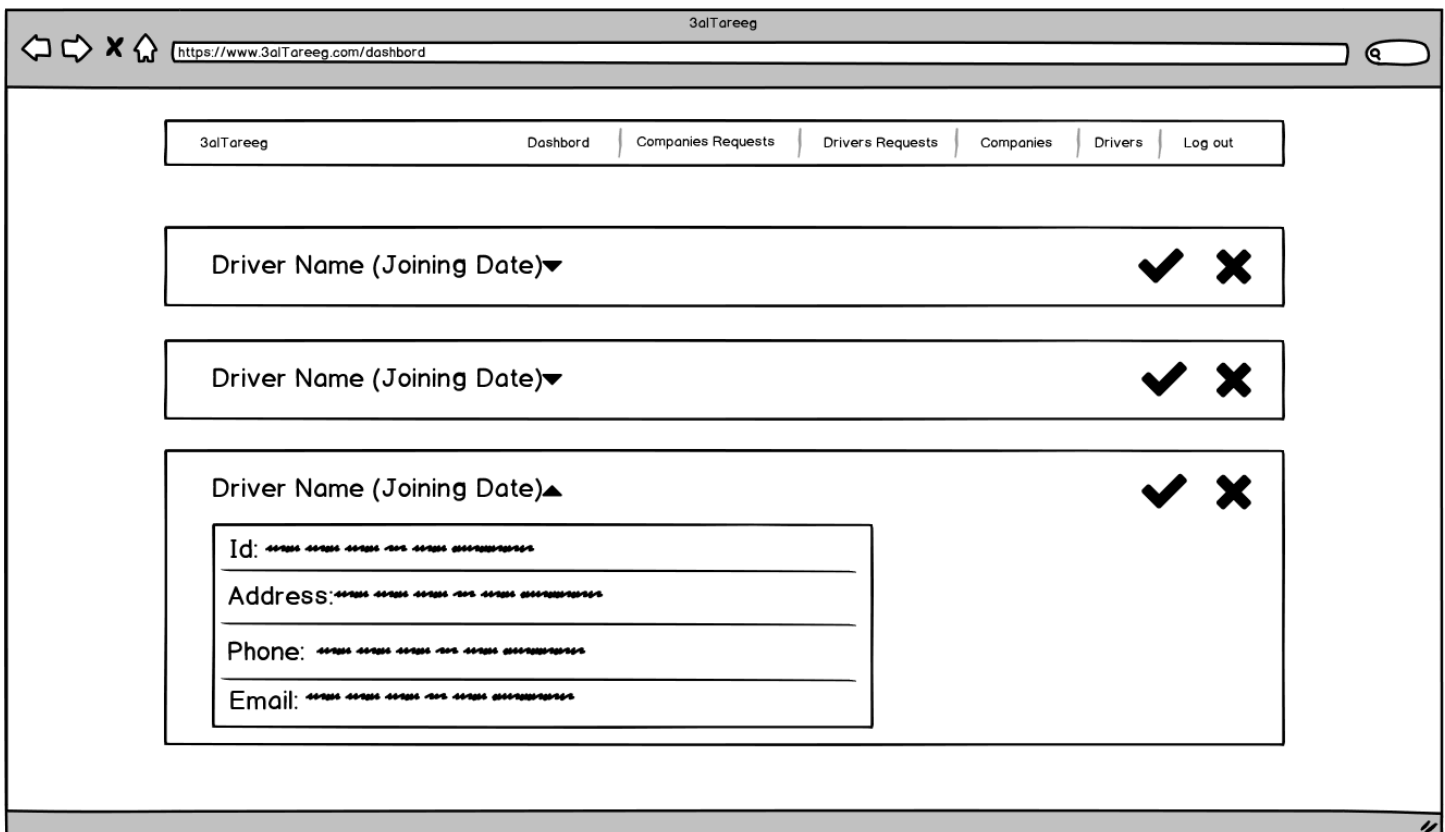**Figure B.12: List of All Companies / Drivers Page (Admin).**
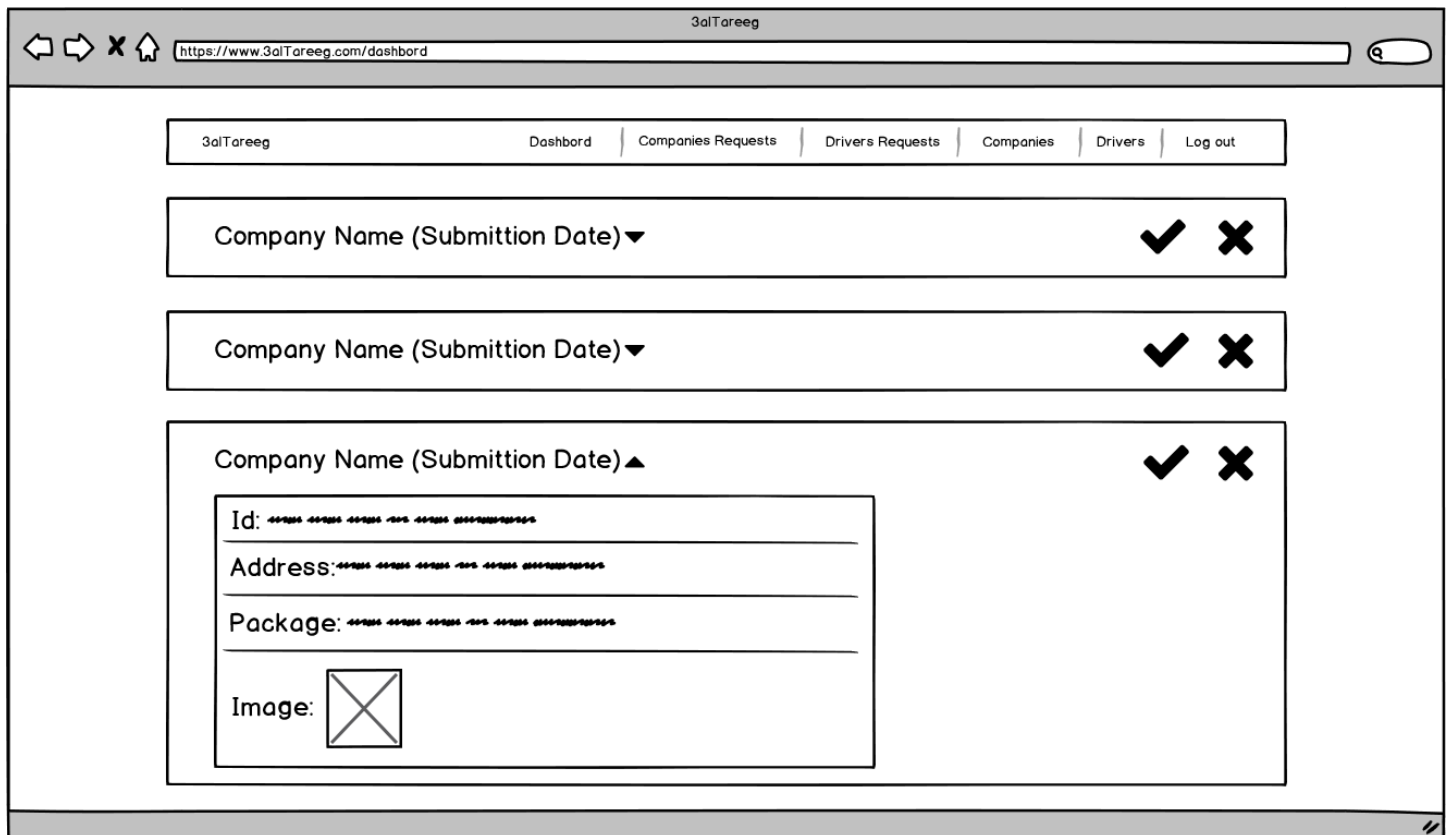

Figure B.13: Drivers' Joining Requests Page (Admin).

Figure B.5: Companies Requests Page (Admin).