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Throughout the process of constructing and developing the Maersk-CMS Cloud Application on Microsoft Azure platform, I received help from different people, who allows the project to be conducted smoothly without much major problem arose. First of all, I would like to sincerely thank my module lecturer, Mr. Kalai Anand A/L Ratnam for his guidance and help given to me when I am facing questions and problems regarding the deployment of the system towards the Cloud platform as I am new to it. With his continuous emphasis on Azure platform and services during lectures, these has been helpful for this project. On the other hand, I would like to thank Microsoft for launching the Azure for Student program, where subscribed student developers like me are credited USD 100.00 to be used for developing and learning purpose. Due to the early registration for the Azure trial subscription, resulting in the expiry of that subscription, hence this program is utterly crucial for me. Last but not least, I would like to thank my family and friends who are always supportive and giving me morale motivation throughout the project. Without their care, I would not be able to accomplish this project in the given dateline.

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# 1.0 Introduction

## 1.1 Background

Maersk Line is the world’s largest container shipping company founded in 1928. It is the largest operating unit of the A.P. Moller – Maersk Group which is a Danish business conglomerate. It has total of 374 offices in 116 countries. Moreover, it has a capacity of 2.6 million TEU and operates more than 600 vessels. Maersk Line has come to a point that shipping had grown to full capacity hence the company has decided to use cloud as the solution.

The intention of moving to cloud application is to support the business growth of Maersk Line and increase organizational flexibility. Decision has been made to consolidate their data centres and server rooms around the world to a virtualized platform. Microsoft Azure was chosen as the cloud platform to host some of its IT environment and plans to expand their relationship further by changing over its IT setup based on Microsoft Azure, starting with desktop environment to container management.

## 1.2 Objective

* To be able to upgrade the Container Management System (CMS) application and at the same time perform other maintenance tasks while multiple users are using the application.
* To be able to monitor the Container Management System (CMS) application at all times to identify any issues and to troubleshoot those issues. The way of how each tenant is using the application is also being monitored and studied to better improve the system interface.
* To construct and deliver a Container Management System (CMS) application that has high availability.
* To construct and deliver a Container Management System (CMS) application that meet the major demand of the application.

## 1.3 Scope

This project includes the process of designing and developing a cloud-based Container Management System (CMS) by hosting it at the Microsoft Azure platform, allowing users from different geographical areas to access the system at the same time smoothly.

## 1.4 Non-functional Requirement Specification

1. Provisioning
   * To provision the new application to the Microsoft Azure platform.
2. Maintainability
   * To upgrade the application and perform other maintenance tasks while multiple users are using it.
3. Monitoring
   * To monitor the application at all times to identify any problems and to troubleshoot them. Including monitoring how each users uses the application.
4. Availability
   * To ensure the web application to be constantly available online to be accessed.
5. Scalability
   * To ensure that the application is designed and developed to meet the demand of the application.

## 1.5 Functional Requirement Specification

Maersk Line CMS is a cloud-based application that is compatible with most web browsers in the market which inclusive of Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge. This application is intended for internal use, which only involves end-users like admins and agents. Functionalities accessible by each user are shown in table below.

|  |  |
| --- | --- |
| **User** | **Functional Requirement** |
| Admin | * + - Login     - Register new agent     - Create, edit, delete, view schedule     - Register, delete, view ship     - View customer     - View booking |
| Agent | * + - Login     - Register & view customer     - Make & view booking |

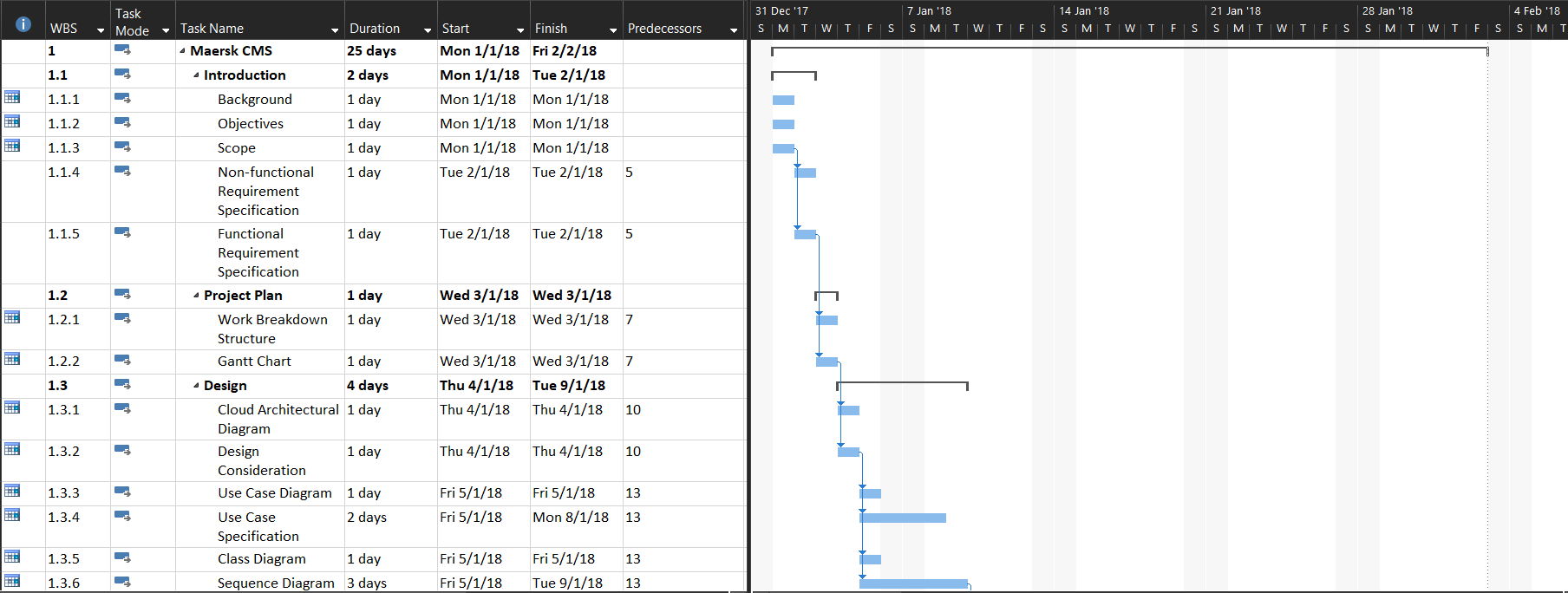
Table 1: CMS Functional Requirements

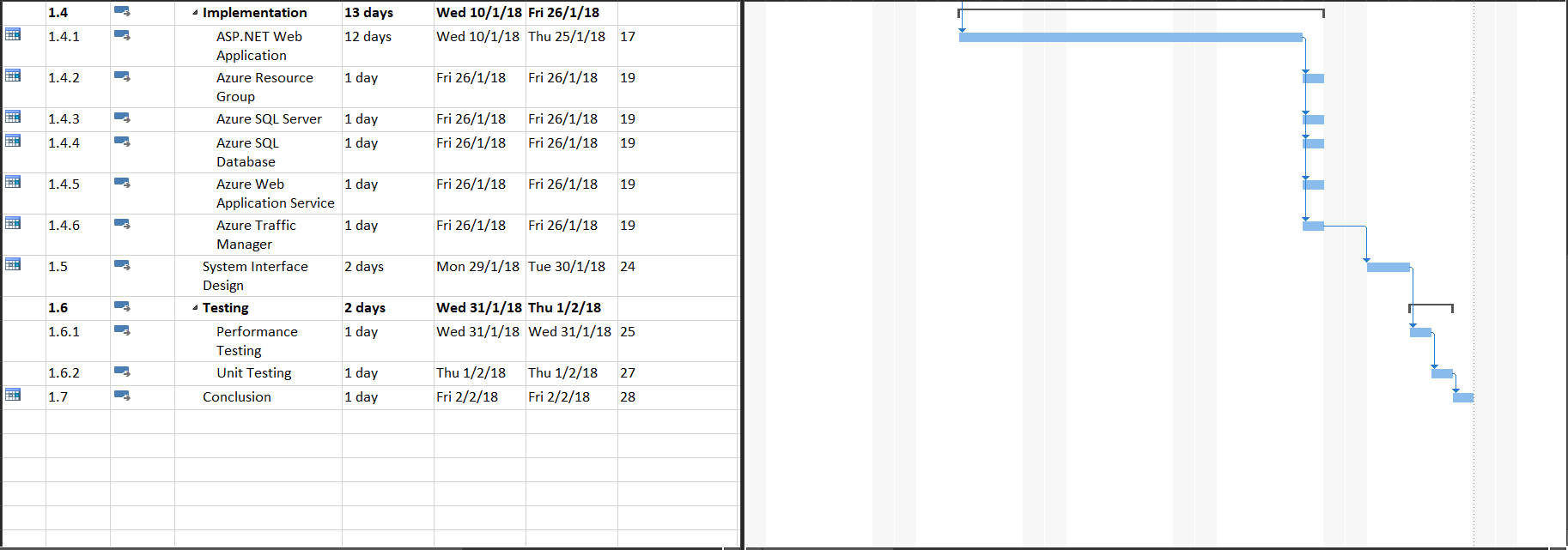
# 2.0 Project Plan

## 2.1 Work Breakdown Structure

|  |  |  |
| --- | --- | --- |
| WBS | Task Name | Duration |
| **1** | **Maersk CMS** | **25 days** |
| **1.1** | **Introduction** | **2 days** |
| 1.1.1 | Background | 1 day |
| 1.1.2 | Objectives | 1 day |
| 1.1.3 | Scope | 1 day |
| 1.1.4 | Non-functional Requirement Specification | 1 day |
| 1.1.5 | Functional Requirement Specification | 1 day |
| **1.2** | **Project Plan** | **1 day** |
| 1.2.1 | Work Breakdown Structure | 1 day |
| 1.2.2 | Gantt Chart | 1 day |
| **1.3** | **Design** | **4 days** |
| 1.3.1 | Cloud Architectural Diagram | 1 day |
| 1.3.2 | Design Consideration | 1 day |
| 1.3.3 | Use Case Diagram | 1 day |
| 1.3.4 | Use Case Specification | 2 days |
| 1.3.5 | Class Diagram | 1 day |
| 1.3.6 | Sequence Diagram | 3 days |
| **1.4** | **Implementation** | **13 days** |
| 1.4.1 | ASP.NET Web Application | 12 days |
| 1.4.2 | Azure Resource Group | 1 day |
| 1.4.3 | Azure SQL Server | 1 day |
| 1.4.4 | Azure SQL Database | 1 day |
| 1.4.5 | Azure Web Application Service | 1 day |
| 1.4.6 | Azure Traffic Manager | 1 day |
| 1.5 | System Interface Design | 2 days |
| **1.6** | **Testing** | **2 days** |
| 1.6.1 | Performance Testing | 1 day |
| 1.6.2 | Unit Testing | 1 day |
| 1.7 | Conclusion | 1 day |

## 2.2 Gantt Chart





# 3.0 Design

## 3.1 Cloud Architectural Diagram

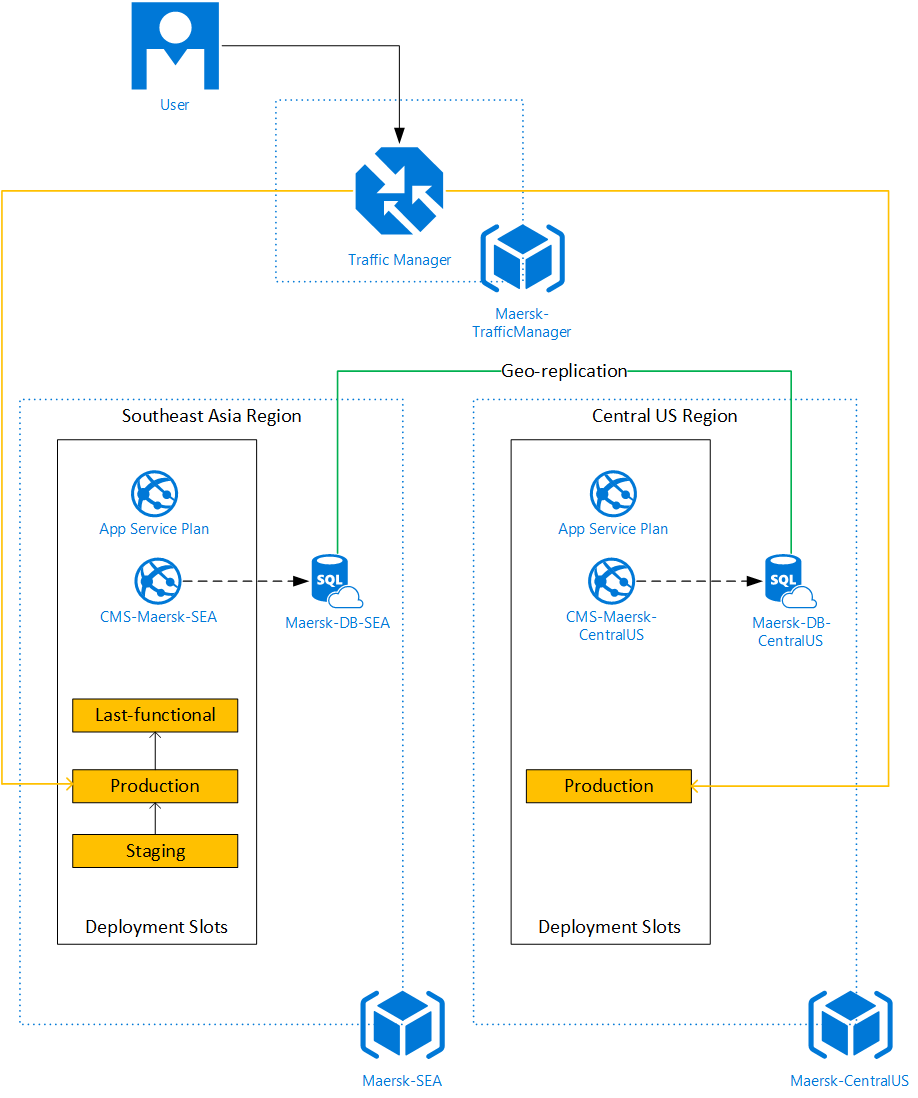
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Figure 1: Maersk CMS Cloud Architecture Diagram

## 3.2 Design Consideration

There are a few assumptions being made before entering into the designing phase of the development life cycle. Due to the objectives of the Maersk Line is to provide an efficient solution to reduce overall supply chain costs and at the same time to manage their logistics more efficiently by developing a cloud-based web application which is having high availability that can result in fastening of the business process. The system is designed to cover as many country regions as possible to ensure that all end-users of the system are able to benefit from this. However, due to has been subsidize with limited amount of Azure platform credit as budget, hence, the developed system will only be host in Southeast Asia and Central US at the early deployment stage. Believing in the success of both regions, will bring development team a better negotiate power to request for more budget to deploy in more different countries.

## **3.3 Use Case Diagram**

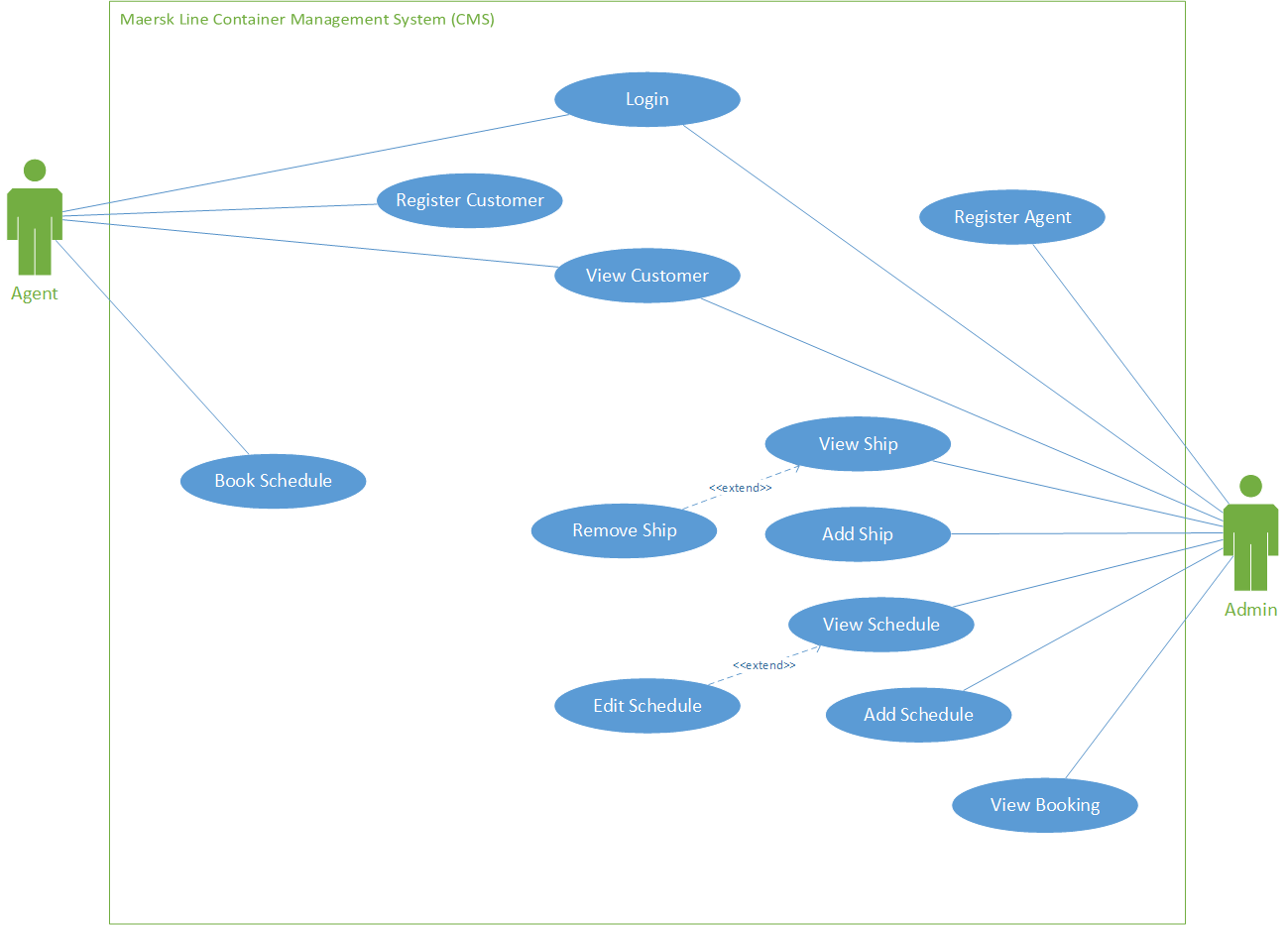


Figure 2: Maersk CMS Use Case Diagram

## **3.4 Use Case Specification**

|  |  |
| --- | --- |
| Name | Login |
| Description | Agent and admin will need to login to the system in order to start using the system. |
| Dependency | - |
| Actor | Agent, Admin |
| Pre-Conditions | The agent and admin must have a valid account of the system. |
| Primary Flow of Events | 1. User key in the email and password field. 2. System verify user’s credentials. 3. Login Successful. 4. Interface will vary based on user privilege. |
| Alternative Flow | 2a. Error message indicating where is the issue will be prompted if login unsuccessful. |
| Post Conditions | User able to start using the system. |

Table 2: Use Case Specification of Login

|  |  |
| --- | --- |
| Name | Register Customer |
| Description | Agent has the access to register customer details to assist customer in schedule booking. |
| Dependency | - |
| Actor | Agent |
| Pre-Conditions | The agent must login to the system. |
| Primary Flow of Events | 1. Agent click on register customer tab on the menu bar. 2. Agent fill in all the required information of the customer. 3. System verify the customer’s information. 4. Customer registered successfully. |
| Alternative Flow | 3a. Error message indicating where is the issue will show if registration is unsuccessful. |
| Post Conditions | Agent can start to help the customer in booking container. |

Table 3: Use Case Specification of Register Customer

|  |  |
| --- | --- |
| Name | View Customer |
| Description | The can have a brief glance on whom have they registered as customer into the system. |
| Dependency | - |
| Actor | Agent, Admin |
| Pre-Conditions | 1. Agent must have access to the system. 2. Agent must have register at least one customer. |
| Primary Flow of Events | 1. Agent click on the view customer tab on the menu bar. 2. System will populate all the customers’ brief information which have been registered by that specific agent. |
| Alternative Flow | - |
| Post Conditions | Agent able to view brief details of each and every customer being registered. |

Table 4: Use Case Specification of View Customer

|  |  |
| --- | --- |
| Name | Book Schedule |
| Description | Agent help their customer in booking schedule. |
| Dependency | - |
| Actor | Agent |
| Pre-Conditions | 1. Agent needs to login to the system. 2. Agent needs to register at least on customer. |
| Primary Flow of Events | 1. Agent click on book schedule tab on the menu bar. 2. A list of booked schedules will be shown and agent click on book schedule button. 3. Agent fill in all the necessary information. 4. System verify all the booking information. 5. Booking successful. |
| Alternative Flow | 4a. Error message indicating where is the issue if required information are not being filled in correctly. |
| Post Conditions | Agent successfully make booking for their customer. |

Table 5: Use Case Specification of Book Schedule

|  |  |
| --- | --- |
| Name | Register Agent |
| Description | Agent will be registered by admin before agent can have access to the system. |
| Dependency | - |
| Actor | Admin |
| Pre-Conditions | Admin needs to login to the system. |
| Primary Flow of Events | 1. Admin click on register tab on the menu bar. 2. Admin fills in all the required fields of registering an agent 3. System verify the information. 4. Agent registered successfully. |
| Alternative Flow | 3a. Error message showing where is the problem will be prompted if information is not being filled completely or is invalid. |
| Post Conditions | Agent able to have access to the system to make booking for customer. |

Table 6: Use Case Specification of Register Agent

|  |  |
| --- | --- |
| Name | View Ship |
| Description | All ships’ brief information will be listed here and viewed by admin. Unnecessary ships can be delete. |
| Dependency | <<extend>> Delete Ship |
| Actor | Admin |
| Pre-Conditions | 1. Admin must login to the system. 2. Admin must have added at least one ship. |
| Primary Flow of Events | 1. Admin click on view ship tab on the menu bar. 2. System retrieve all the ships’ information. 3. A list of ships’ information is being displayed.   **If admin wants to delete the ship**   1. Admin click on the delete button beside the ship. 2. System will delete the ship. |
| Alternative Flow | - |
| Post Conditions | Overview of the ships can be viewed and delete action can be done if necessary. |

Table 7: Use Case Specification of View Ship

|  |  |
| --- | --- |
| Name | Add Ship |
| Description | Ship information will be added into the system by admin. |
| Dependency | - |
| Actor | Admin |
| Pre-Conditions | Admin have to login to the system. |
| Primary Flow of Events | 1. Admin click on the add ship tab on the menu bar. 2. Admin fill in all the required information of a ship 3. System verify the information. 4. Ship added successfully. |
| Alternative Flow | - |
| Post Conditions | Ship can be added for scheduling purpose. |

Table 8: Use Case Specification of Add Ship

|  |  |
| --- | --- |
| Name | View Schedule |
| Description | Schedule information will be listed out after adding and editing is allowed. |
| Dependency | <<extend>> Edit Schedule |
| Actor | Admin |
| Pre-Conditions | 1. Admin must have access to the system. 2. Admin must have added at least one schedule. |
| Primary Flow of Events | 1. Admin click on the view schedule tab on the menu bar. 2. System retrieve all the schedule being made by admin. 3. A list of schedules will be displayed out.   **If the admin needs to edit the schedule**   1. Admin click on the edit button beside the schedule. 2. Admin update the information. 3. System verify the updated information. 4. Updated successfully. |
| Alternative Flow | 6a. Error message will be prompted showing what is the issue if information being updated is invalid. |
| Post Conditions | Schedule can be viewed by admin and necessary edit can be done if needed. |

Table 9: Use Case Specification of View Schedule

|  |  |
| --- | --- |
| Name | Add Schedule |
| Description | New schedule information will be added by admin to be used for booking. |
| Dependency | - |
| Actor | Admin |
| Pre-Conditions | Admin needs to have access to the system. |
| Primary Flow of Events | 1. Admin click on add schedule tab on the menu bar. 2. Admin fill in all the needed information of creating a schedule. 3. System verify the information. 4. Schedule added successfully. |
| Alternative Flow | 3a. Error message will be displayed if information is invalid. |
| Post Conditions | Schedule can be added for the purpose booking. |

Table 10: Use Case Specification of Add Schedule

|  |  |
| --- | --- |
| Name | View Booking |
| Description | List of schedules being booked by agent will be listed down. |
| Dependency | - |
| Actor | Admin |
| Pre-Conditions | 1. Admin must login to the system. 2. Agent must book at least one schedule. |
| Primary Flow of Events | 1. Admin click on the view booking tab on the menu bar. 2. System retrieves all booking made by agent. 3. All booking is displayed in a list. |
| Alternative Flow | - |
| Post Conditions | Booking can be reviewed by admin successfully. |

Table 11: Use Case Specification of View Booking

## 3.5 Class Diagram

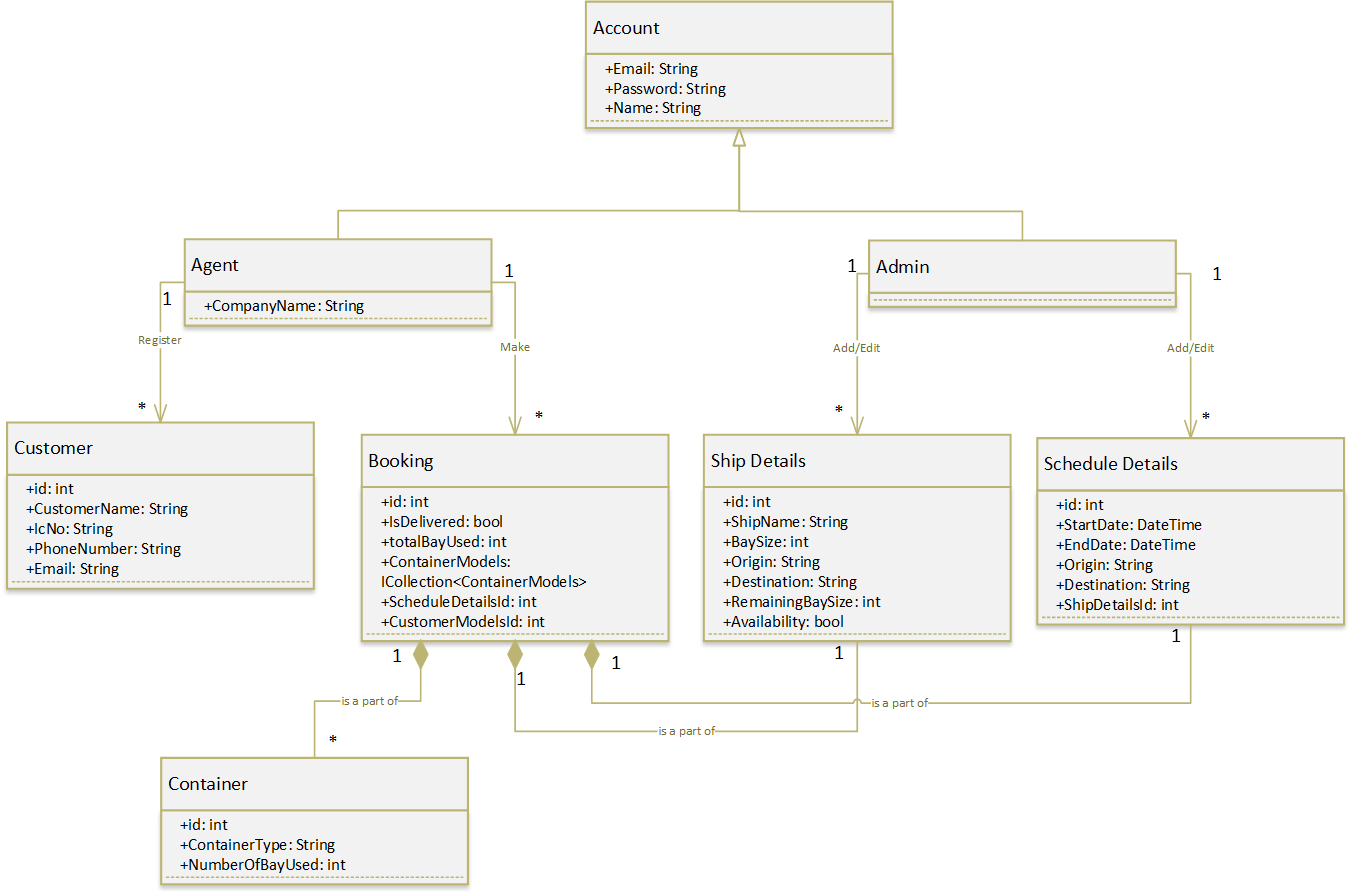


Figure 3: Maersk CMS Class Diagram

## 3.6 Sequence Diagram

### 3.6.1 Login

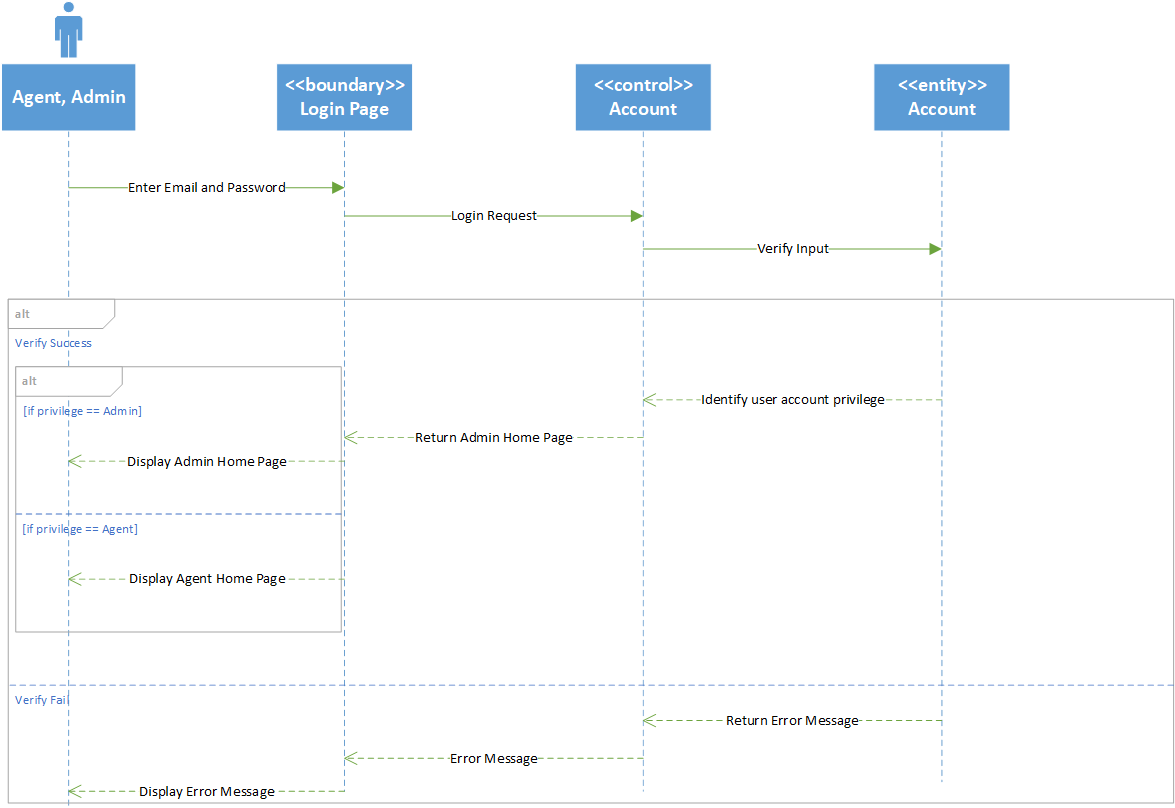


Figure 4: Login Sequence Diagram

### 3.6.2 Booking

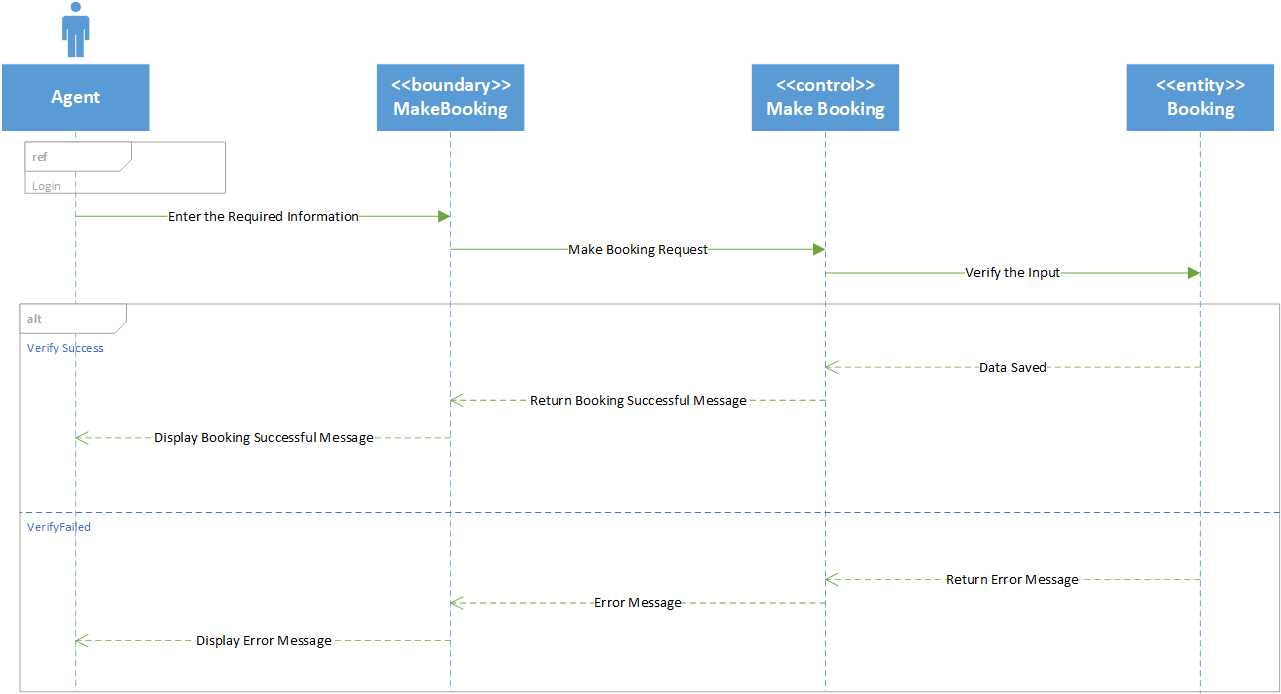


Figure 5: Booking Sequence Diagram

### 3.6.3 Register Customer

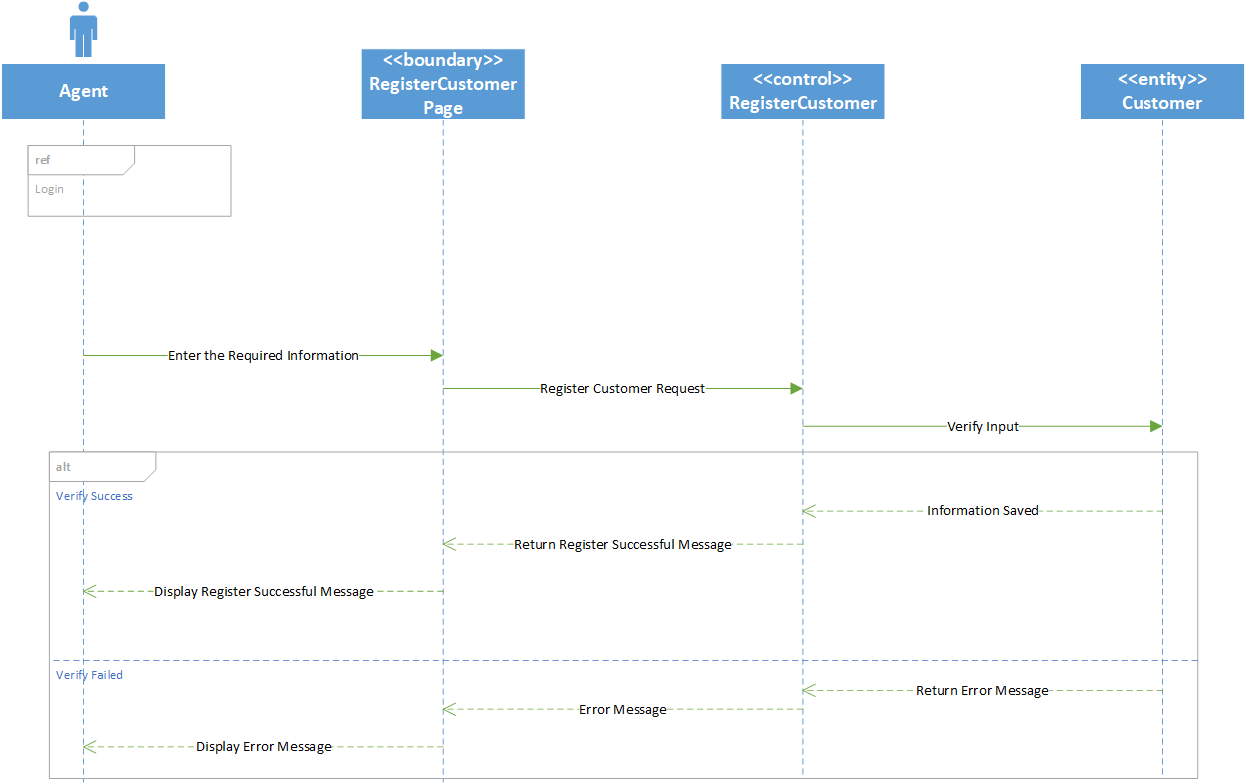


Figure 6: Register Customer Sequence Diagram

### 3.6.4 View Customer

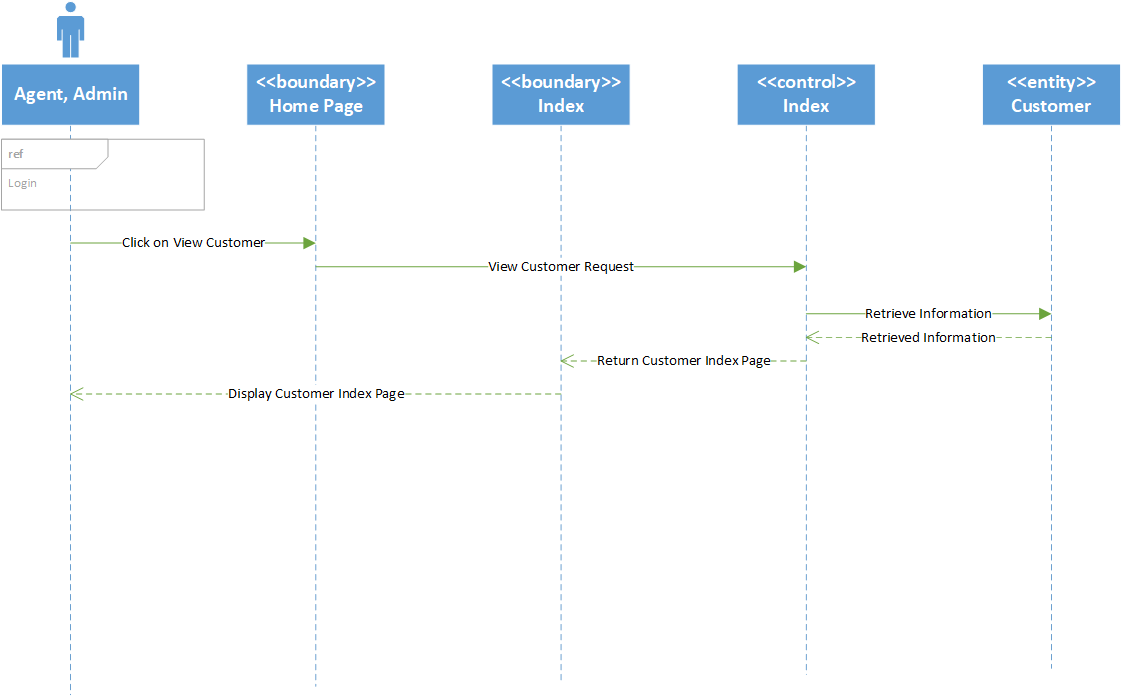


Figure 7: View Customer Sequence Diagram

### 3.6.5 View Schedule



Figure 8: View Schedule Sequence Diagram

### 3.6.6 Add Schedule

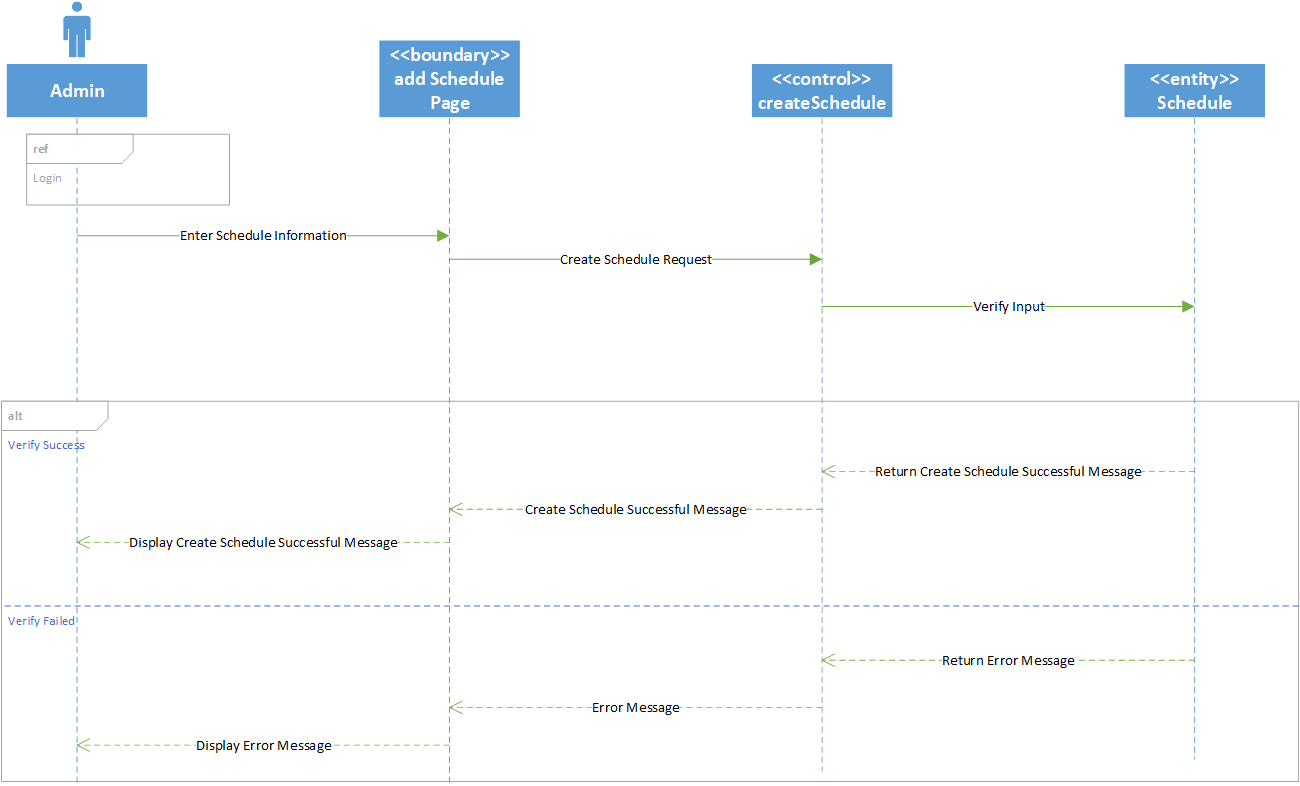


Figure 9: Add Schedule Sequence Diagram

### 3.6.7 Add Ship

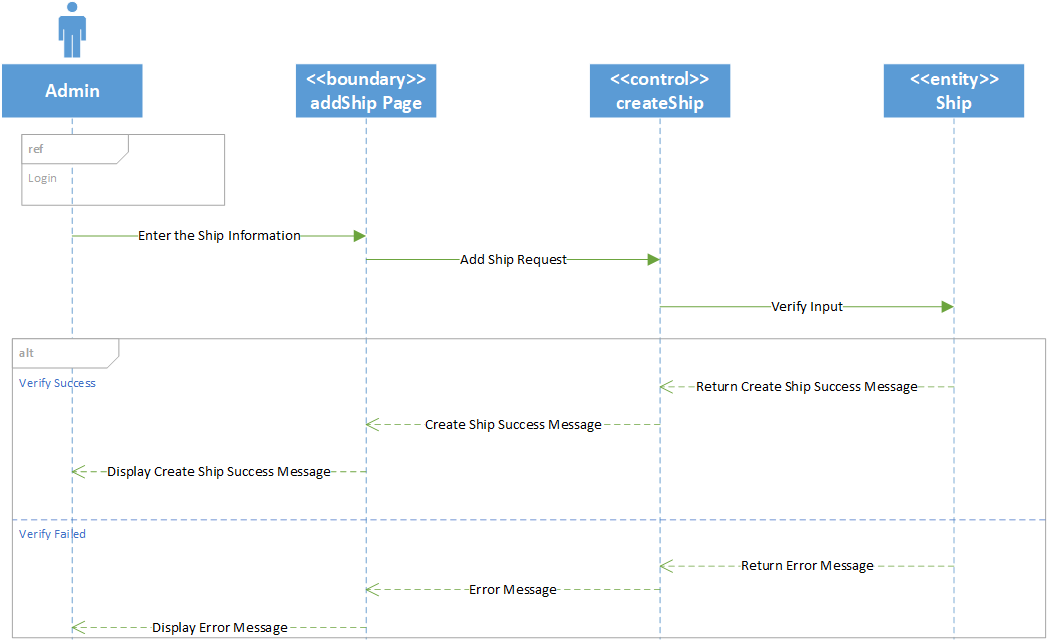


Figure 10: Add Ship Sequence Diagram

### 3.6.8 View Ship

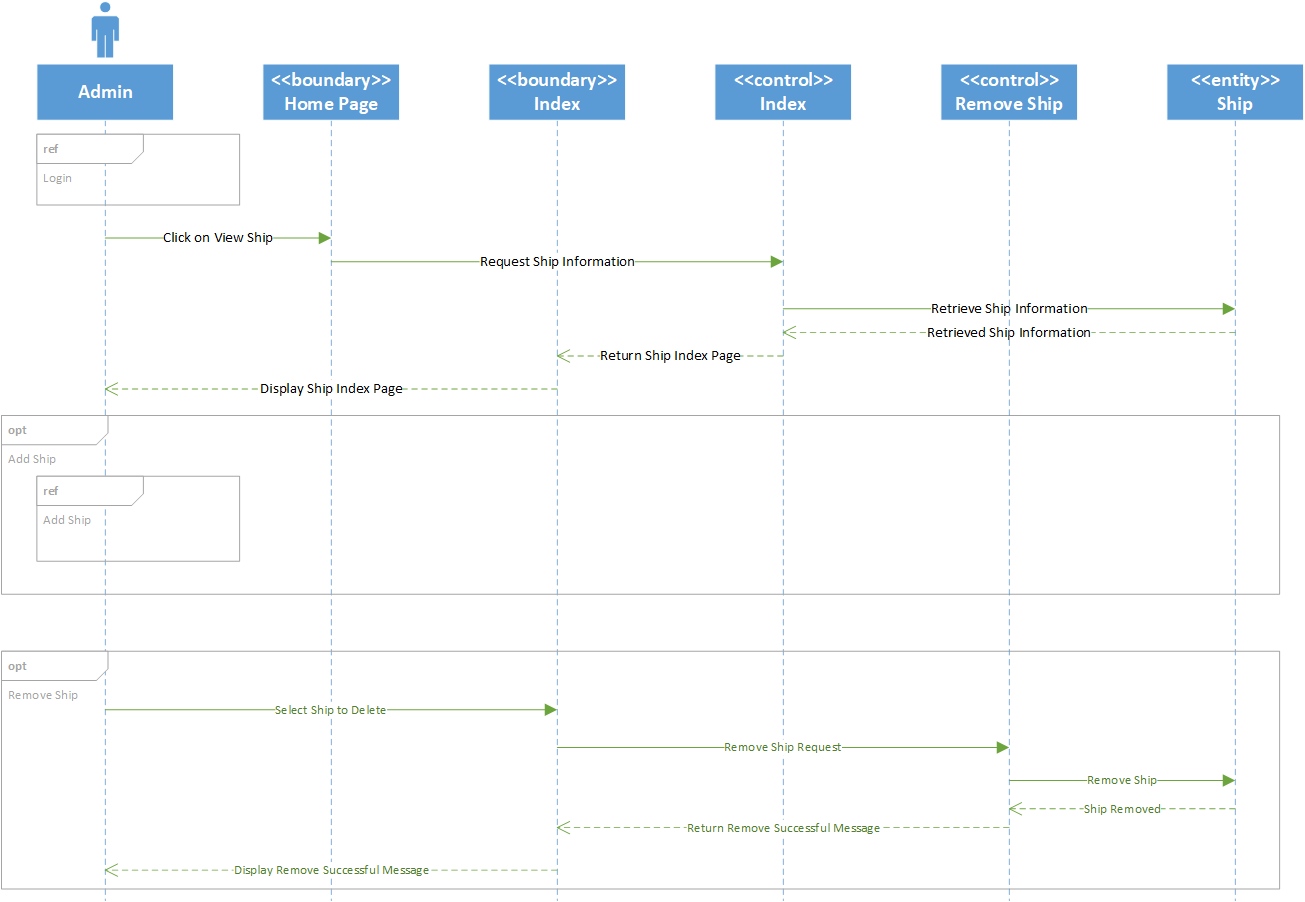


Figure 11: View Ship Sequence Diagram

### 3.6.9 View Booking

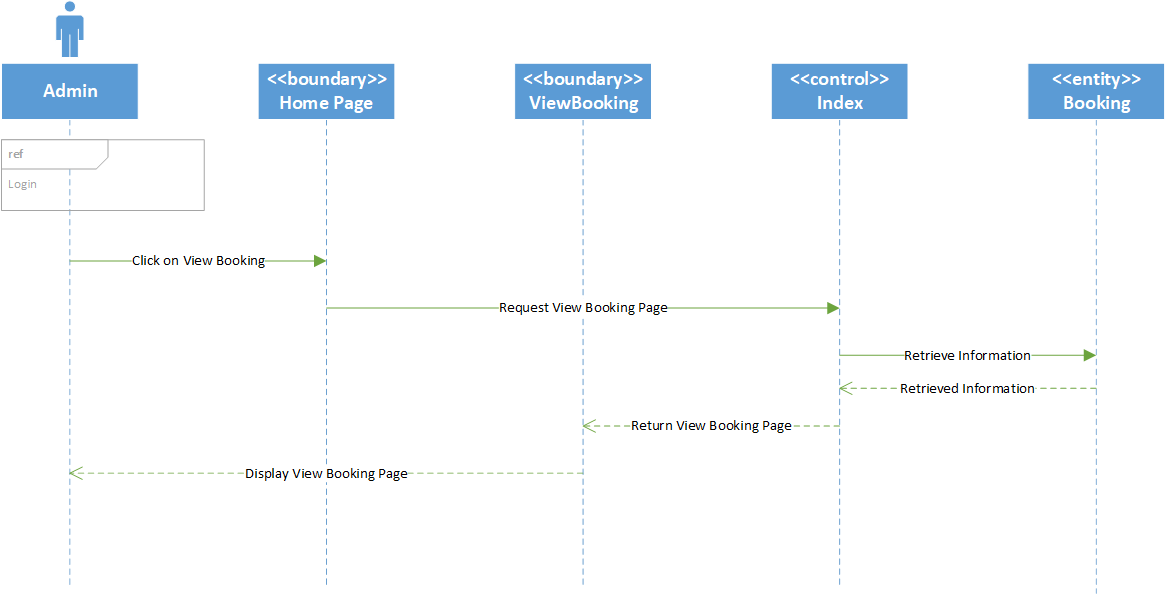


Figure 12: View Booking Sequence Diagram

### 3.6.10 Register Agent

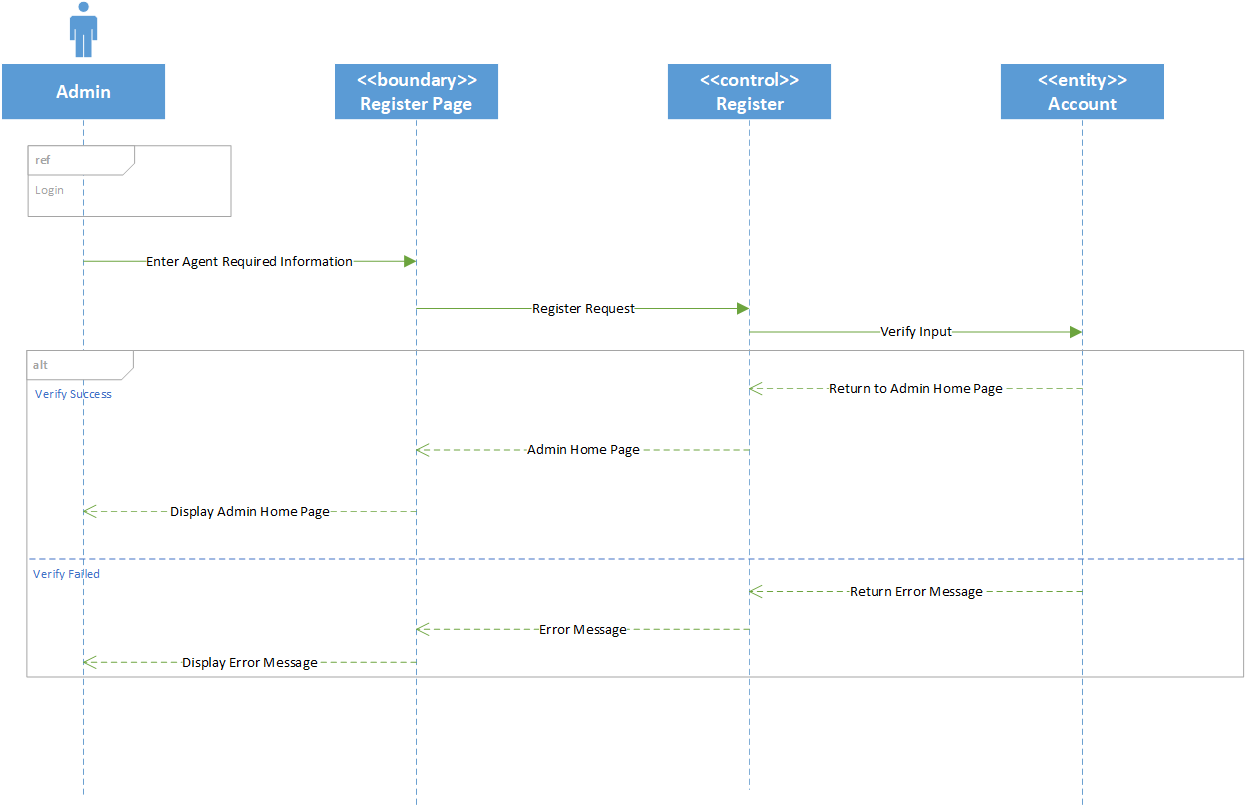


Figure 13: Register Agent Sequence Diagram

# 4.0 Implementation

## 4.1 ASP.NET Web Application

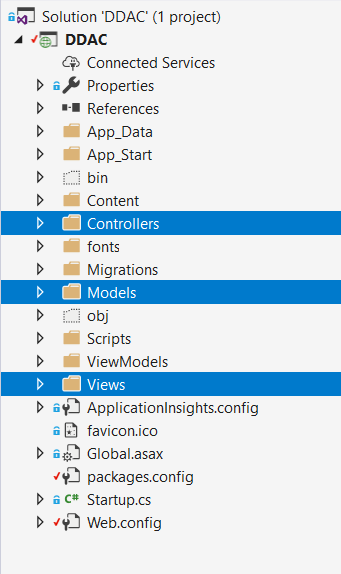


Figure 14: Maersk CMS System Project

The Maersk Line Container Management System (CMS) is developed using ASP.NET MVC 5, a web application framework developed by Microsoft that implements the model-view-controller (MVC) pattern. Its main advantage is to build web sites that are easy to maintain. It is a lightweight and highly testable framework as the framework separates the web application into 3 components which are models represent the interaction with the database, views represent the interaction with the end-users and controllers acting as a bridge between the view and model, as shown in figure above. Besides, Bootstrap 3, a front-end web framework is included by default to provide smooth and responsive appearance of the website.

## 4.2 Azure Resource Group

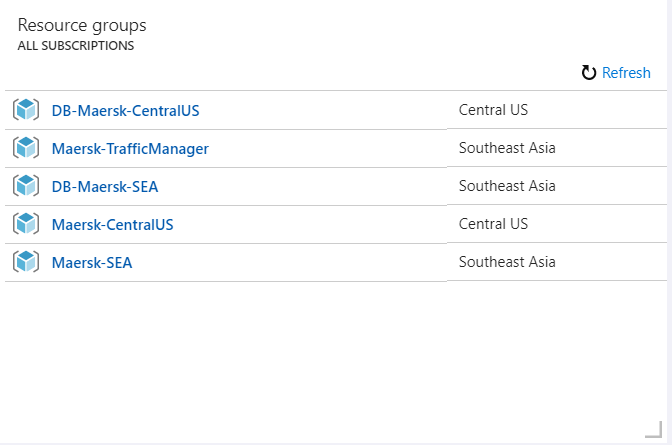


Figure 15: Maersk Azure Resource Group

### 4.2.1 Resource Group for Web Application Service

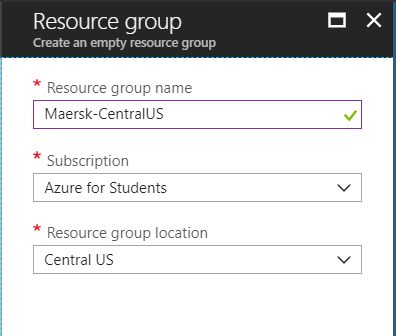
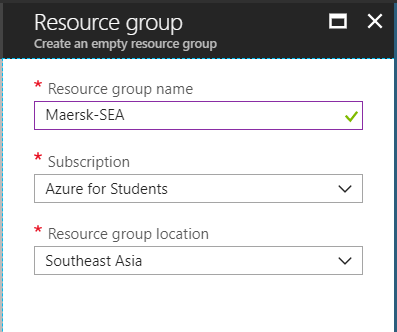


Figure 16: Resource Group for Web Application Service

Two resource groups are created as shown above for the primary and secondary web application service. A resource group in Azure will take the responsibility of being a container to hold related resources or services in Azure platform. Unique naming such as Maersk-SEA, Maersk-CentralUS are chosen for the resource groups to distinguish different regions. “SEA” stands for Southeast Asia and “CentralUS” stands for Central US.

### 4.2.2 Resource Group for SQL Databases and Servers

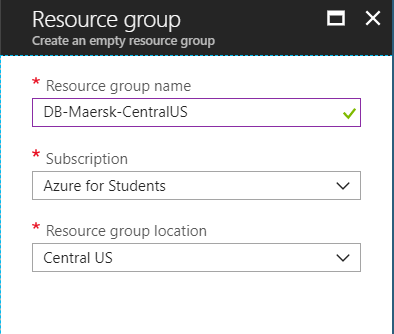
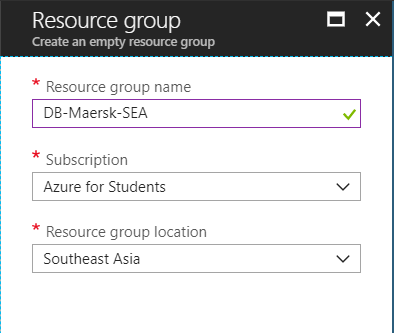


Figure 17: Resource Group for SQL Database and Server

Distinctive resource groups are created to group database related services for maintainability, including SQL Server and SQL database. Distinguishing naming such as DB-Maersk-SEA and DB-Maersk-CentralUS are chosen for the resource groups to differentiate different regions. “DB” stands for database. Southeast Asia is the primary location of database and Central US is the secondary. This is because the application is primarily meant for users in Southeast Asia region.

### 4.2.3 Resource Group for Traffic Manager

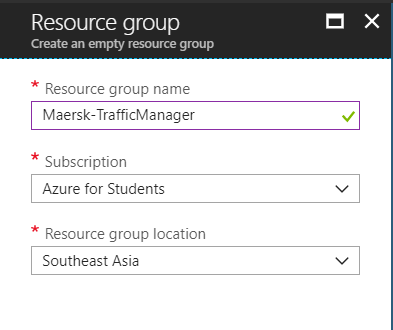


Figure 18: Resource Group for Traffic Manager

## 4.3 Azure SQL Server

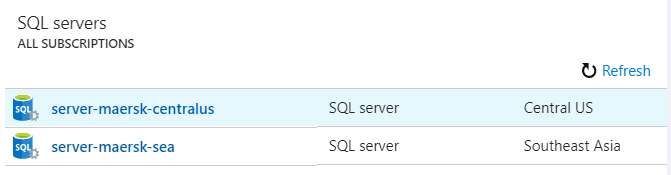


Figure 19: Azure SQL Server

### 4.3.1 Setup SQL Server

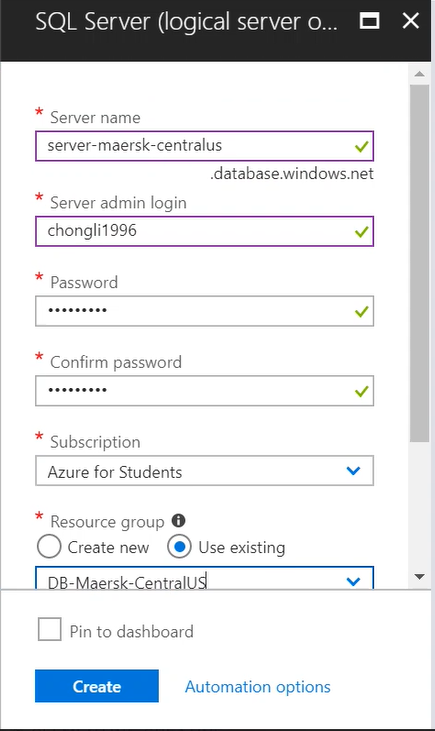
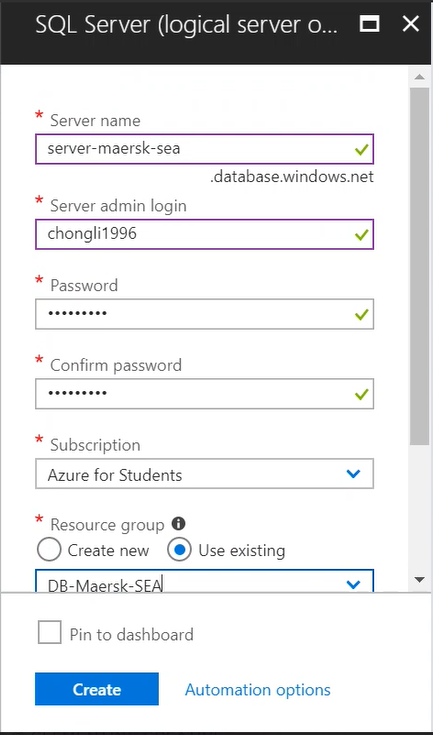


Figure 20: Azure SQL Server Setup

Before establishing SQL database, SQL server is required to establish first to host the database. SQL servers are created in the resource groups established earlier which are the DB-Maersk-SEA and DB-Maersk-CentralUS respectively. Server name “server-maersk-sea.database.windows.net” and “server-maersk-centralus.database.windows.net” are chosen as naming convention.

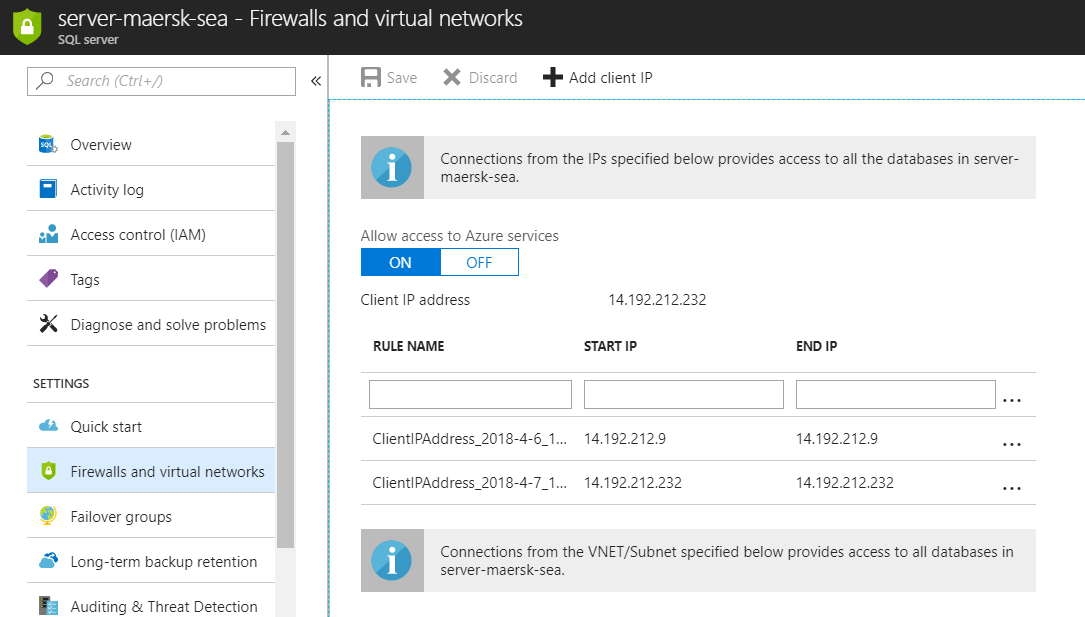


Figure 21: Azure SQL Server Firewall Setup

Firewall rules are required to be set into each respective SQL server to ensure that the respective developer is being authorized to access to the Azure service in order to allow the developer to publish the updated version of system to the cloud platform if there are any necessary changes needed to be done.

## 4.4 Azure SQL Database

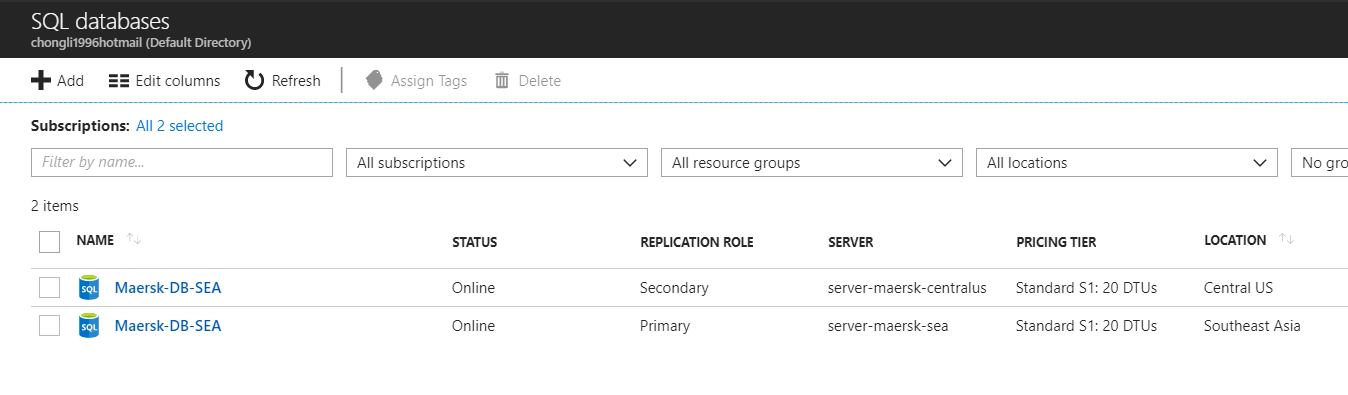


Figure 22: Azure SQL Database

### 4.4.1 Setup Primary SQL Database

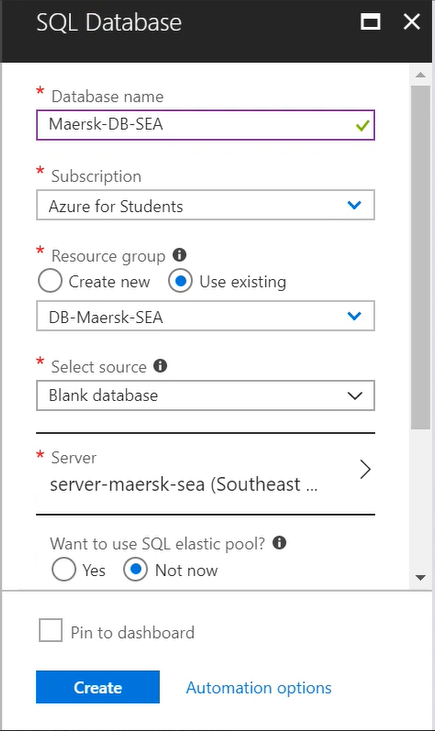


Figure 23: Azure SQL Database Setup

SQL database is established in the same resource group after setting up the SQL servers where primary database naming is set as “Maersk-DB-SEA”. Blank database is selected as source. SQL server created earlier, “server-maersk-sea.database. windows.net” is being linked to the database.

The Maersk-DB-SEA will be using Standard (S1) pricing tier which includes 20 DTUs (Database Transaction Units) and 250GB storage. The database with Standard (S1) tier, having 20 DTUs can drive 20 users simultaneously every one second. This is sufficient if assuming the number of admins and agents in Southeast Asia Maersk is less than 20. This is because according to Microsoft, due to the pacing delay, one user can generate at most one transaction per second, on average (Microsoft, 2016).

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZpbmNlbnQgQ2hvdwAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzkyAACSkgACAAAAAzkyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 24: SQL Database pricing tier selection

### 4.4.2 Setup Secondary SQL Database

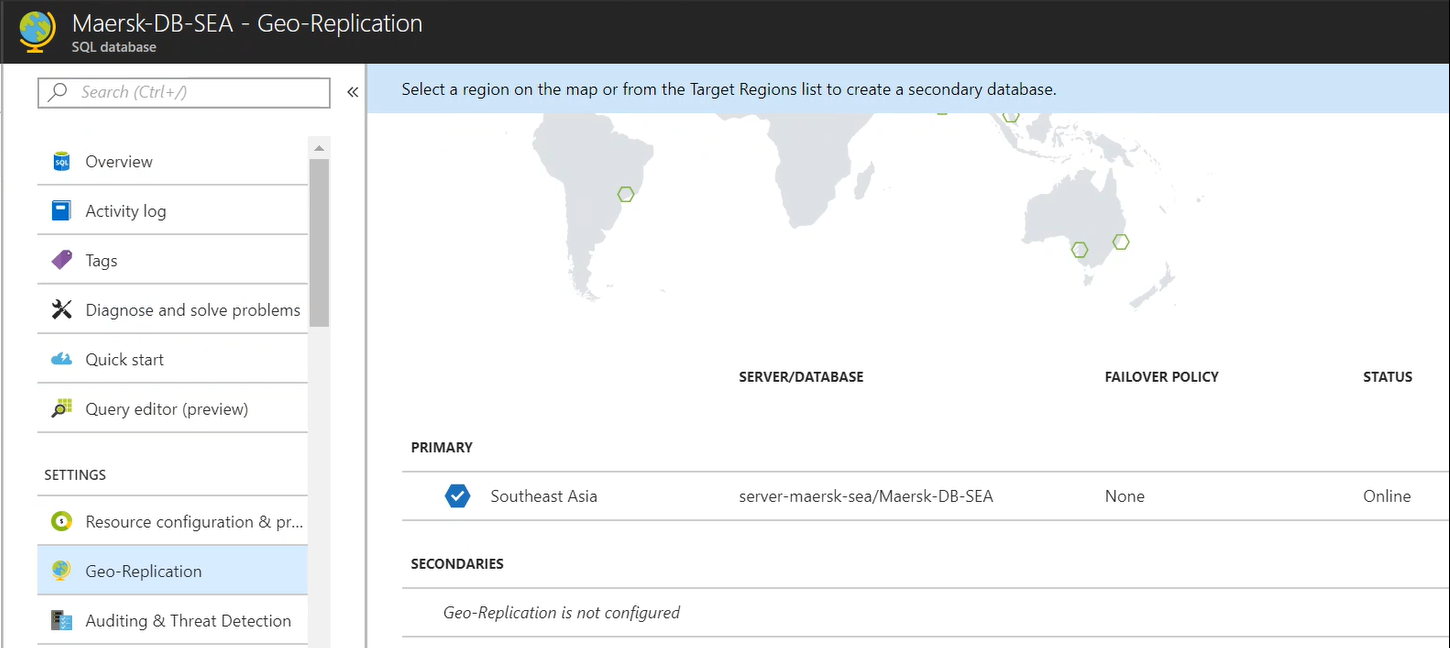


Figure 25: Geo-replicate secondary database

Geo replication is a service to create copy of database at different region which can be found in Azure SQL database service under “Geo-replication” section. It is usually used for failover, when the primary database is not accessible, secondary database will be swapped with the primary database.

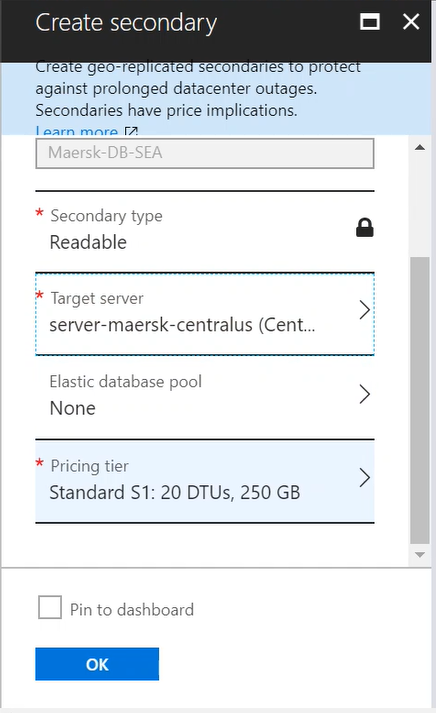


Figure 26: Setup for Geo-replication

Secondary database is created by clicking on the desired region on the map. “Central US” is selected. Type is set to “Readable” and server is set to the SQL server created earlier for Central US region. Pricing tier is identical as the primary database, which is Standard (S1).

During replication of database and seeding process, moving dotted lines can be seen on the map as shown below. Solid line will appear when replication is completed.

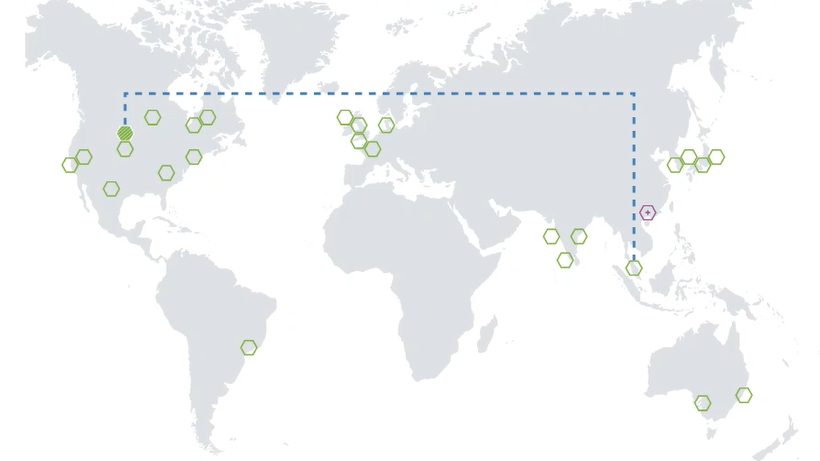


Figure 27: Initiating connection and seeding

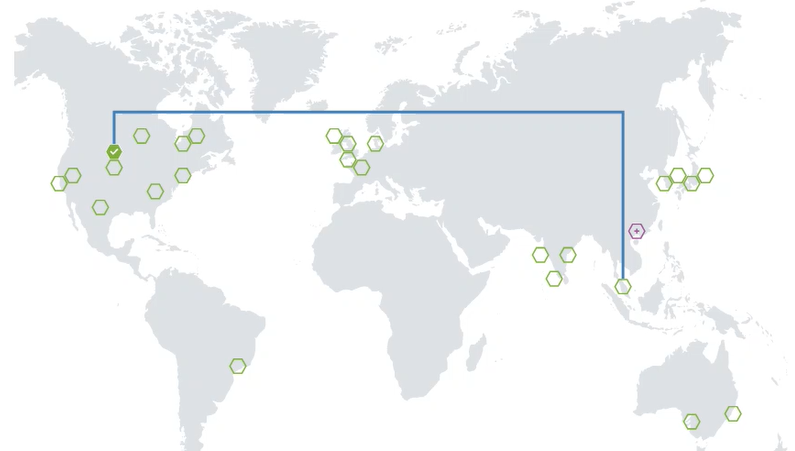


Figure 28: Initiate completed

### 4.4.3 Configure Fail-over policy

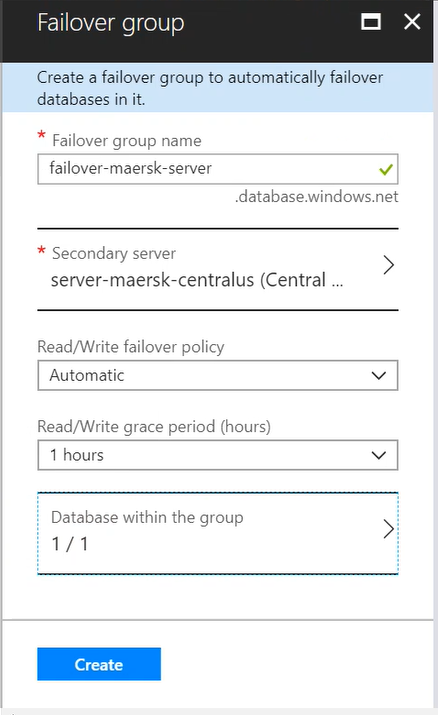


Figure 29: Failover policy setup

After creating a database replication, failover policy is to be established. Under the SQL Server of primary database which is the Southeast Asia region, under “Failover Groups”, choose “Add group”. Secondary server is the Central US server. Name of failover group is given as “failover- maersk- server”. Read/write failover policy set to “Automatic” with 1-hour grace period.

After configuring failover policy, geo-replication will look as below.

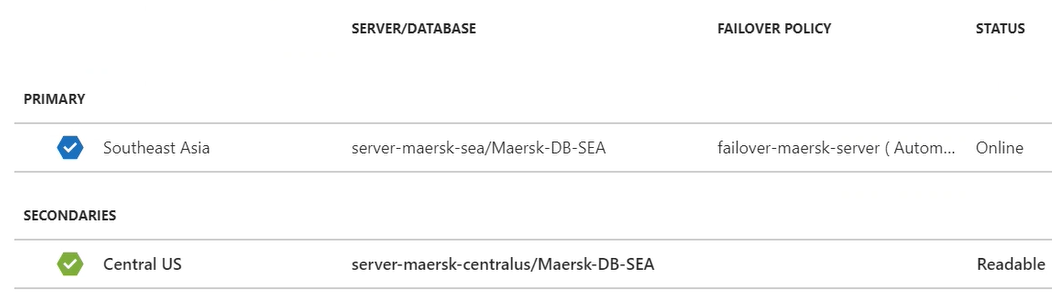


Figure 30: Result of failover setup

## 4.5 Azure Web Application Service

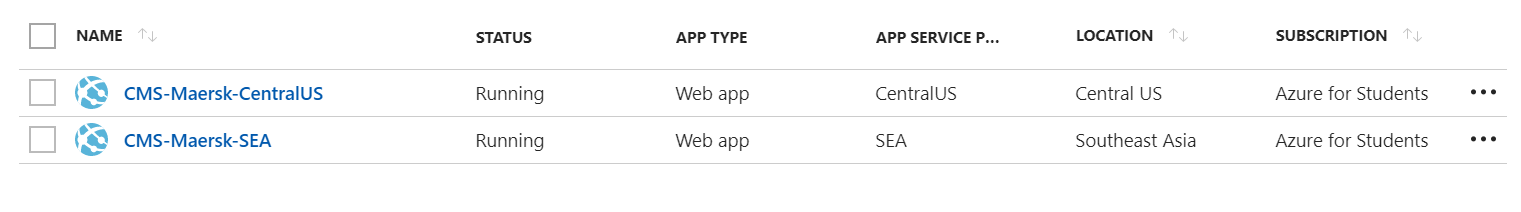


Figure 31: Azure Web Application Service

### 4.5.1 Setup Web Application Service

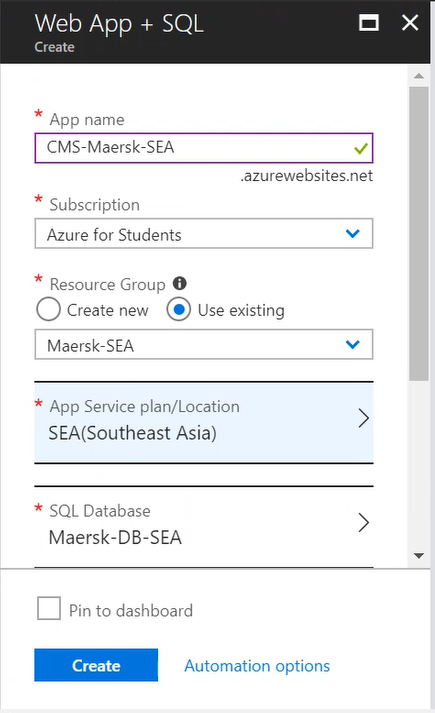


Figure 32: Web Application service setup

Web App is the service to host web application on Azure cloud platform. Unique web app name is chosen as the URL of website (CMS-Maersk-SEA.azurewebsites.net) and is placed in the resource group created earlier, where the corresponding regions are selected. Windows and application insights is turned off.

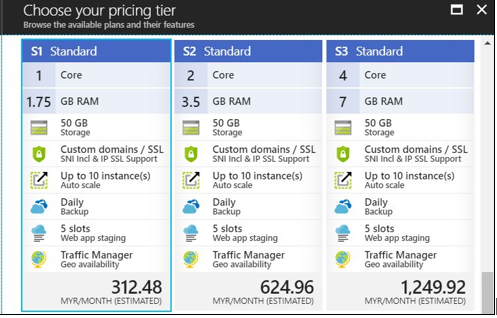


Figure 33: Pricing tier selection for web app service

For App Service Plan, a new plan is created based on Maersk’s business requirements. Pricing tier of S1 (Standard) is chosen for both Southeast Asia region and Central US region. This tier provides sufficient specification (Single core, 1.75 GB RAM, 50 GB storage) and supports for Auto Scaling and Traffic Manager. Reason of selecting S1 tier instead of others is due to the budget constraint.

After setting up the web app service, SQL server and SQL database, the ASP.NET web application will now be published to Azure cloud platform.

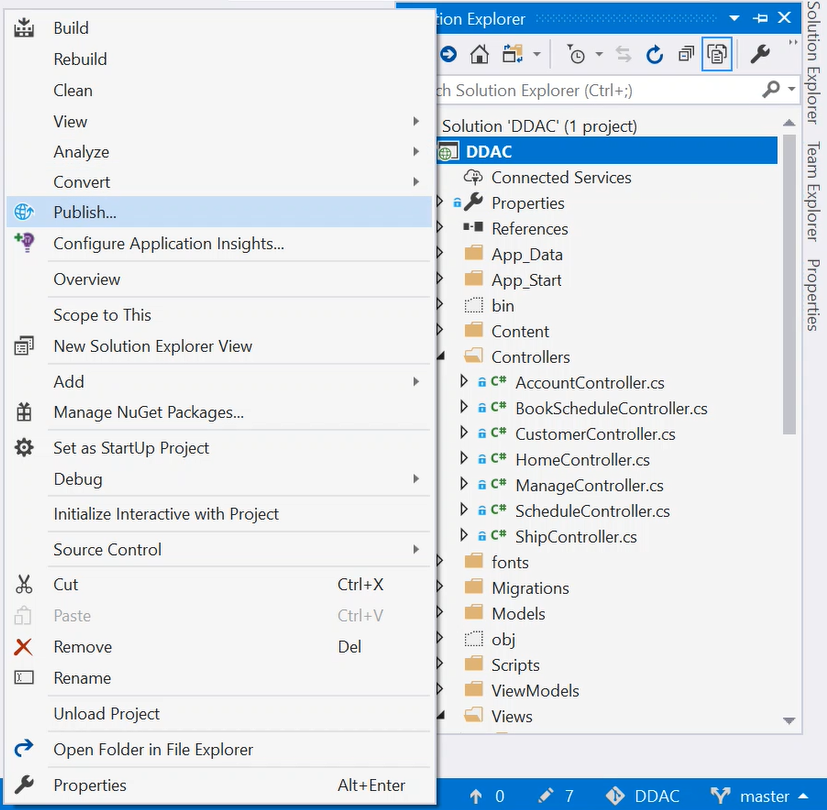


Figure 34: Publish project

Then, choose the web app service created earlier.

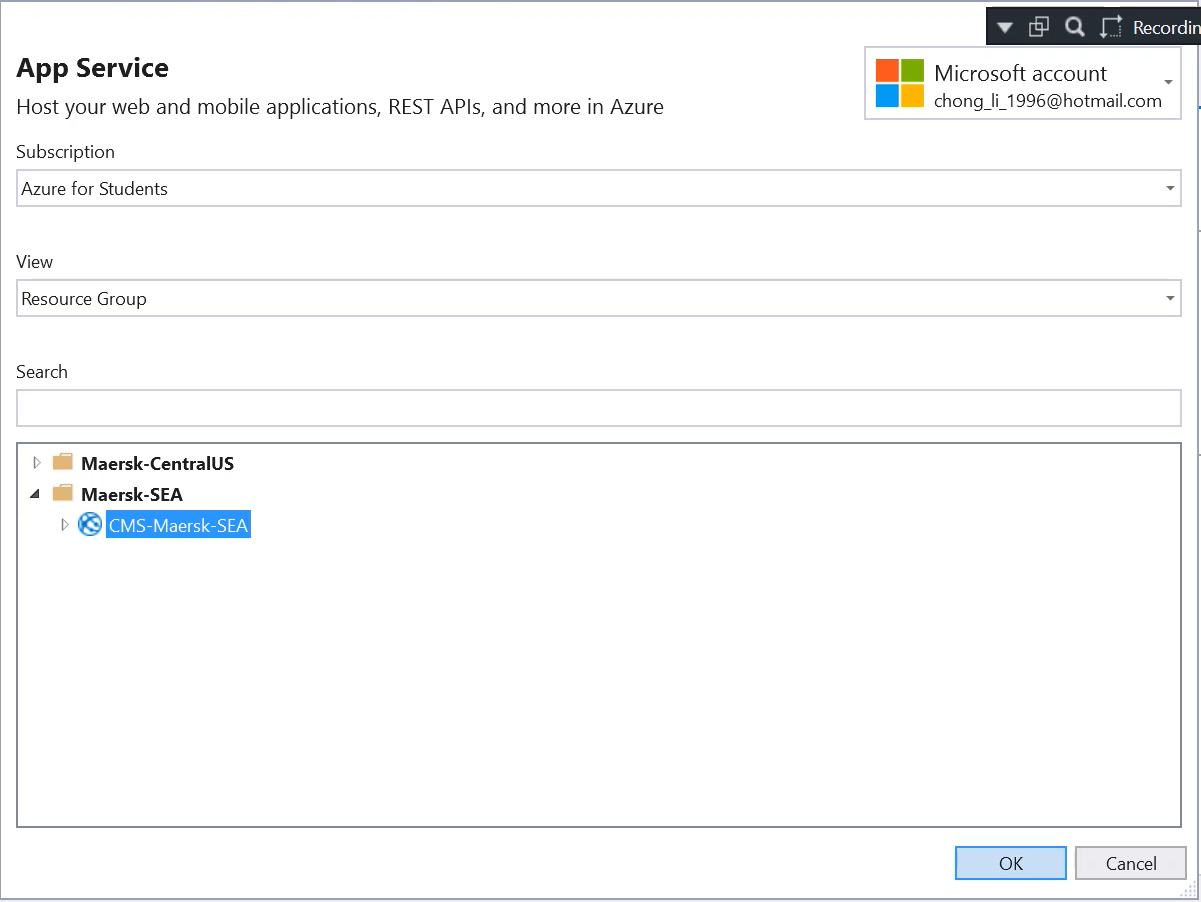


Figure 35: Choose Web App Service

In the next page, the connection settings are auto configured by Visual Studio based on the settings being set up on the Azure platform earlier.

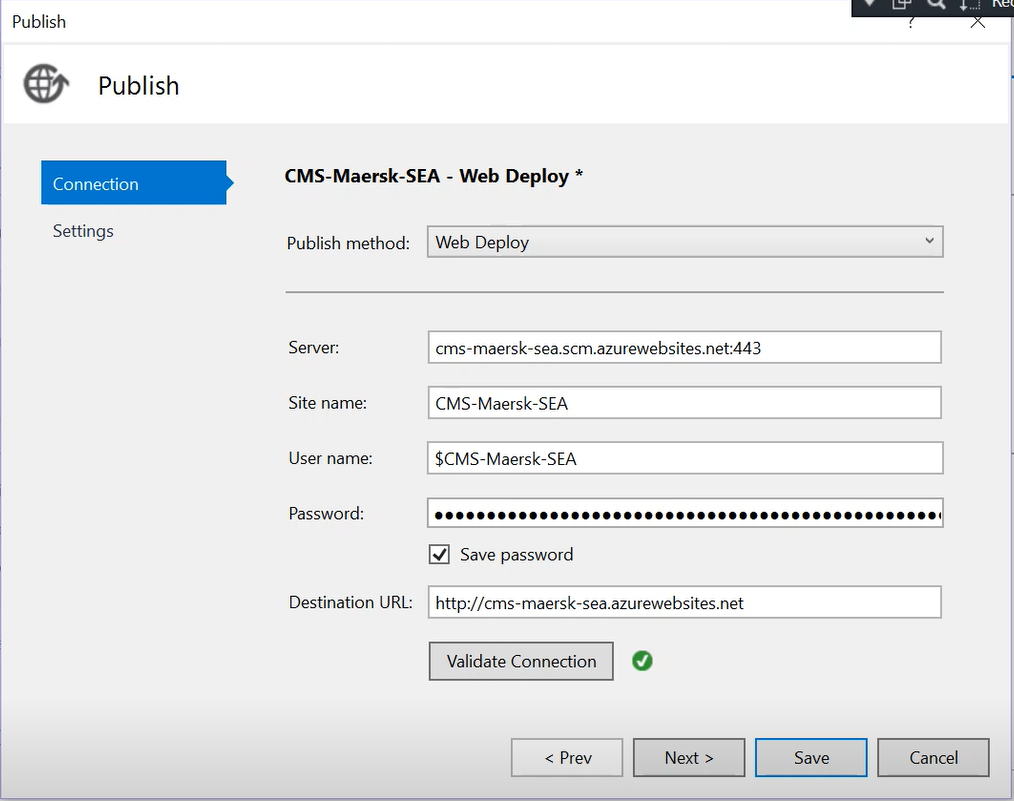


Figure 36: Configure Web App Service

In the setting section, configuration is set to “Release” and developer needs to tick on the “Execute Code First Migrations”. This will allow the web app to run all the migrations when the application first started. The reason behind this is that Maersk CMS is developed following the concept of code first migration. Hence, Visual Studio will automatically generate database schema and create the database to Azure SQL database.

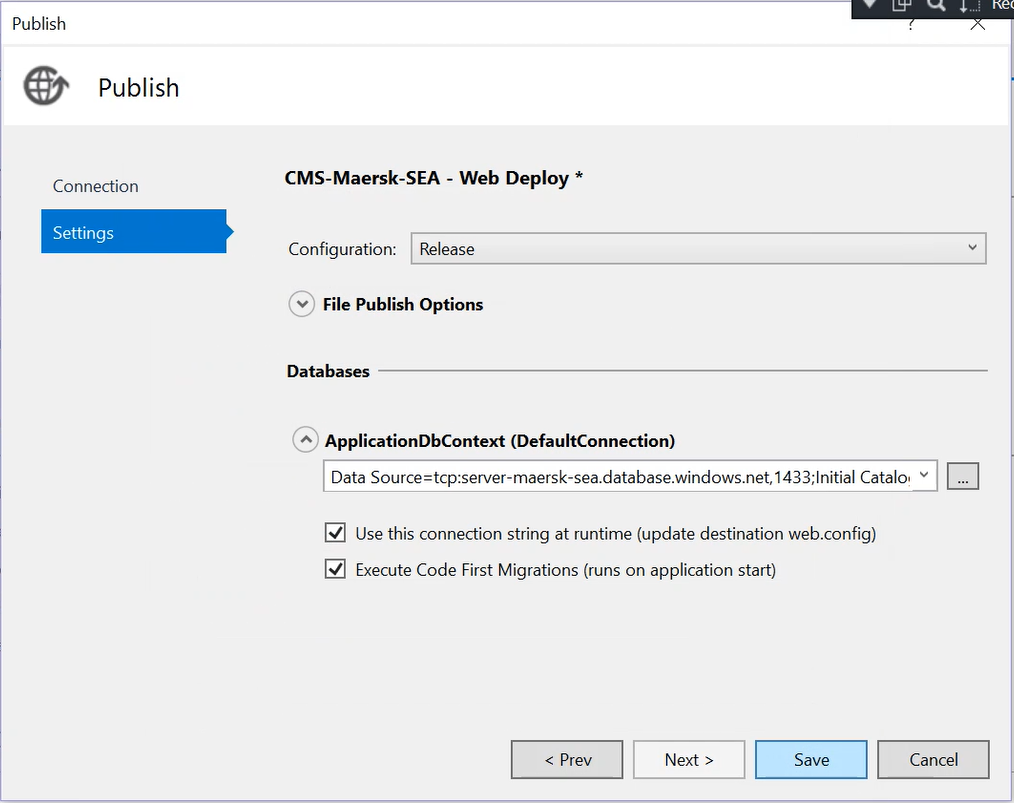


Figure 37: Configure Database Connection

The steps are repeated for the secondary ASP.NET application (Central US region), by publishing to the secondary web app. After successful deployment of both web applications, the web app URLs “CMS-Maersk-SEA.azurewebsites.net” and “CMS-Maersk-CentralUS.azurewebsites.net” will direct to the Maersk CMS web application.

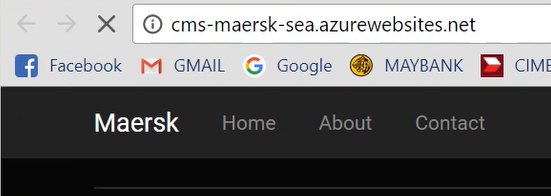


Figure 38: Southeast-Asia Region

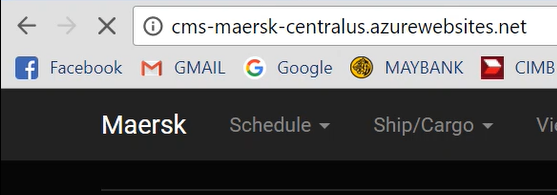


Figure 39: Central US Region

## 4.6 Azure Traffic Manager

### 4.6.1 Setup Traffic Manager Profile

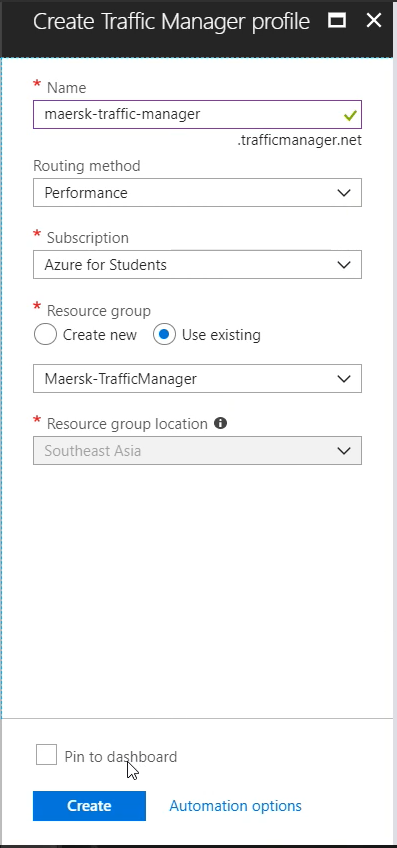


Figure 40: Setup Traffic Manager

Under “Traffic Manager Profile” click “Add”. Set the name for the traffic manager as “maersk-traffic-manager.trafficmanager.net”. This URL will connect to the user. Routing method is set to “Performance” to manage web traffic based on performance, increasing system responsiveness by routing traffic to the web application that is closest to the client (Southeast Asia or Central US). However, the performance measurement is based on the measuring of the network latency between user and applications.

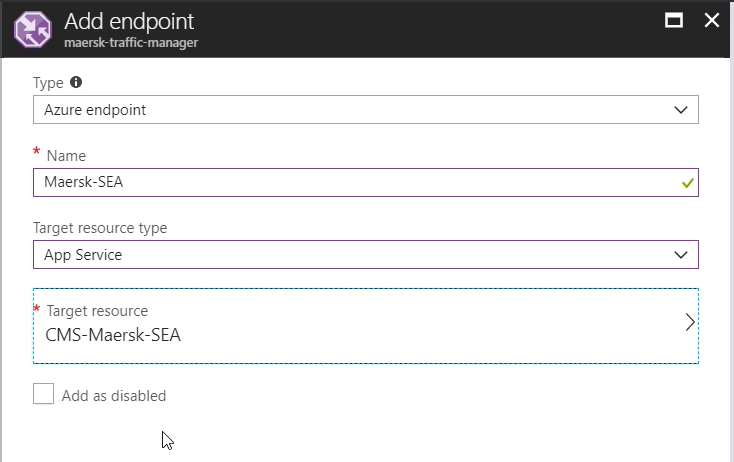


Figure 41: Setup endpoint for SEA

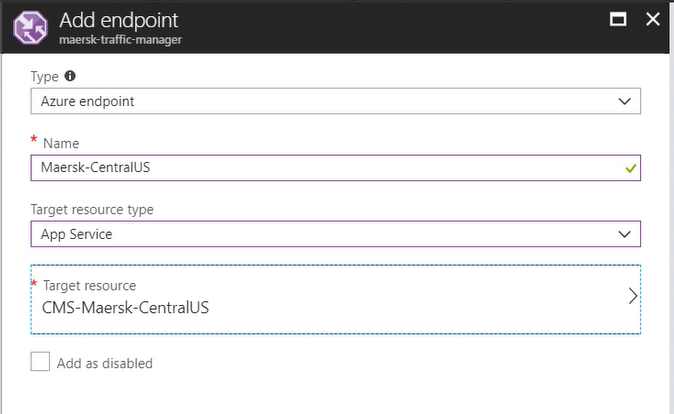


Figure 42"Setup endpoint for Central US

The URLs of both Web Apps “CMS-Maersk-SEA.azurewebsites.net” and “CMS-Maersk-CentralUS.azurewebsites.net” are the endpoints of the traffic manager, because they are the URLs to be redirected to. Under “Endpoints”, click “Add”. Type is set to “Azure Endpoint”. Name of endpoints are set to both “Maersk-SEA” and “Maersk-CentralUS”. Target resource type is “App Service”. Then Target source is linked to the Web App services created earlier.

# 5.0 System Interface Design

## 5.1 Login

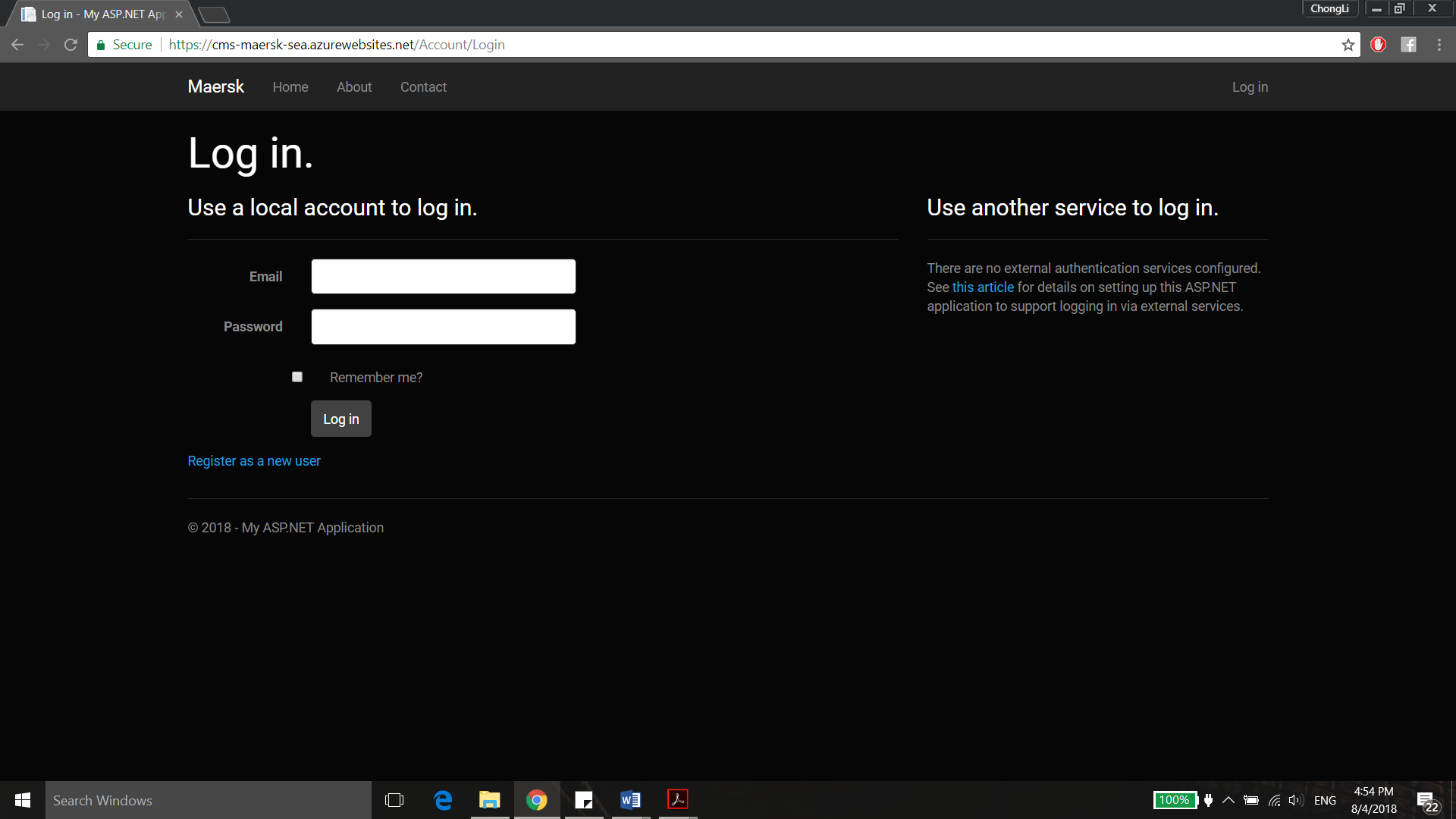


Figure 43: Login Page

## 5.2 Admin Home Page

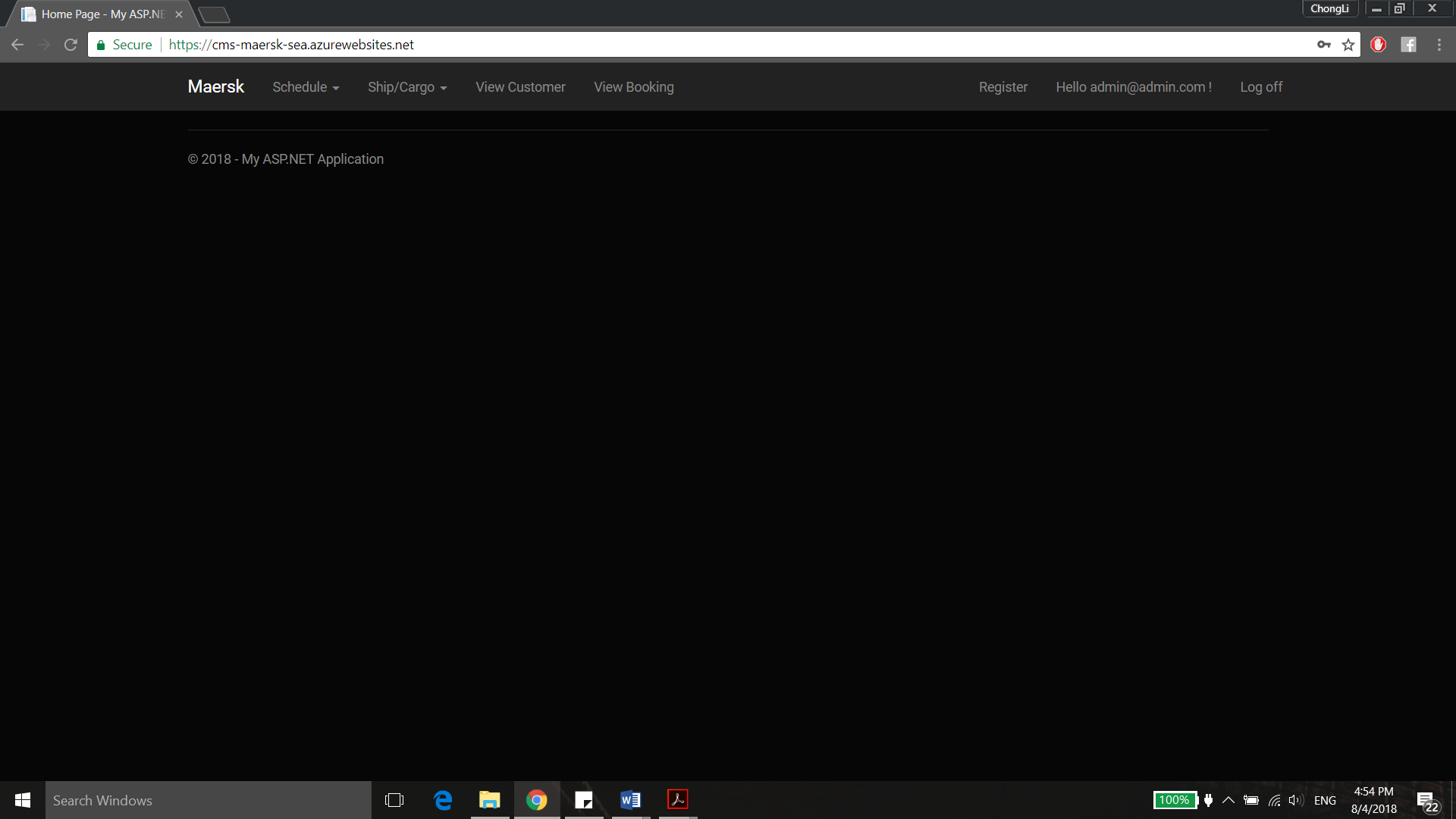


Figure 44: Admin Home Page

## 5.3 Agent Home Page

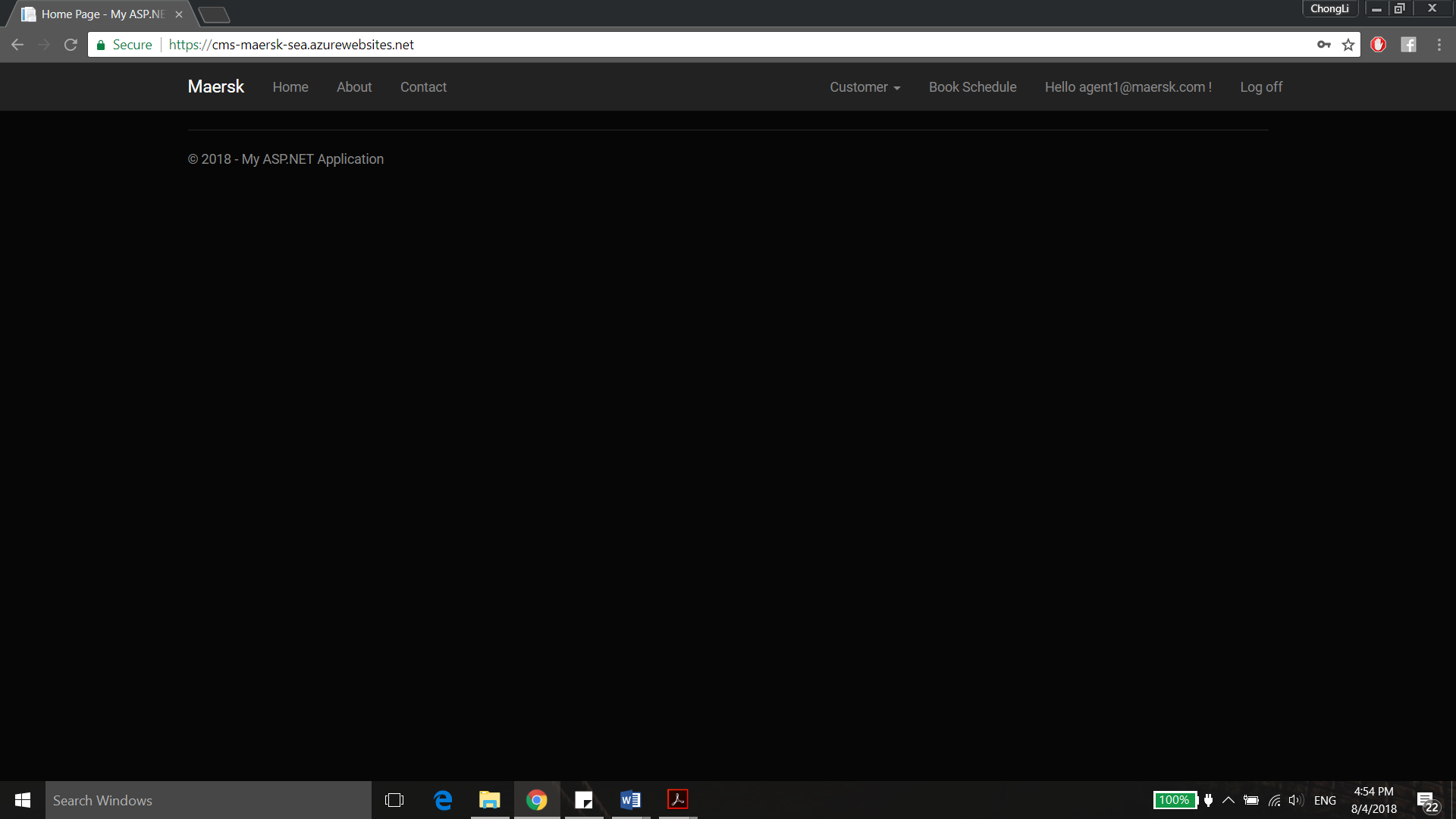


Figure 45: Agent Home Page

## 5.4 Register Agent

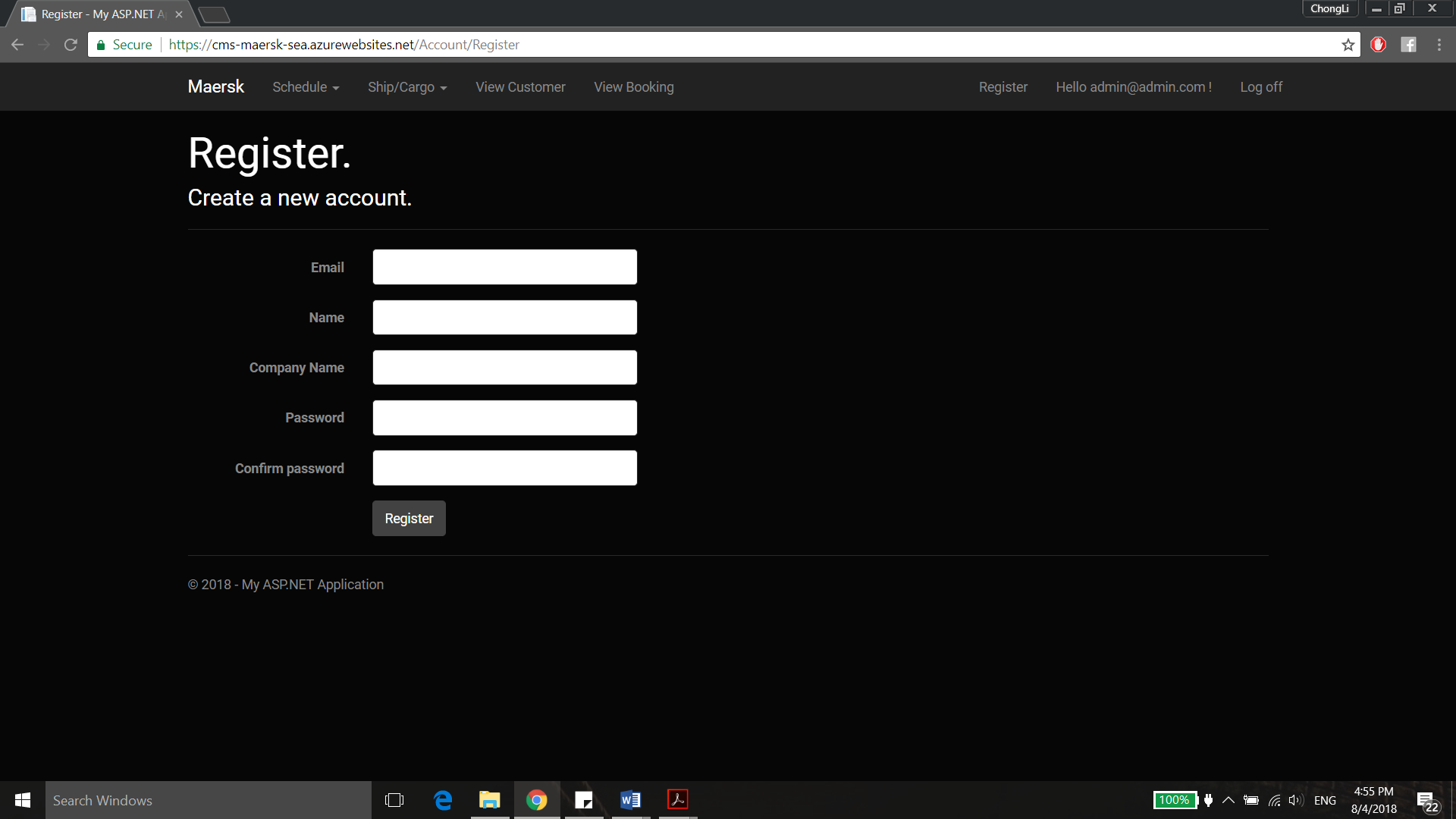


Figure 46: Register Agent Page

## 5.5 Add Ship

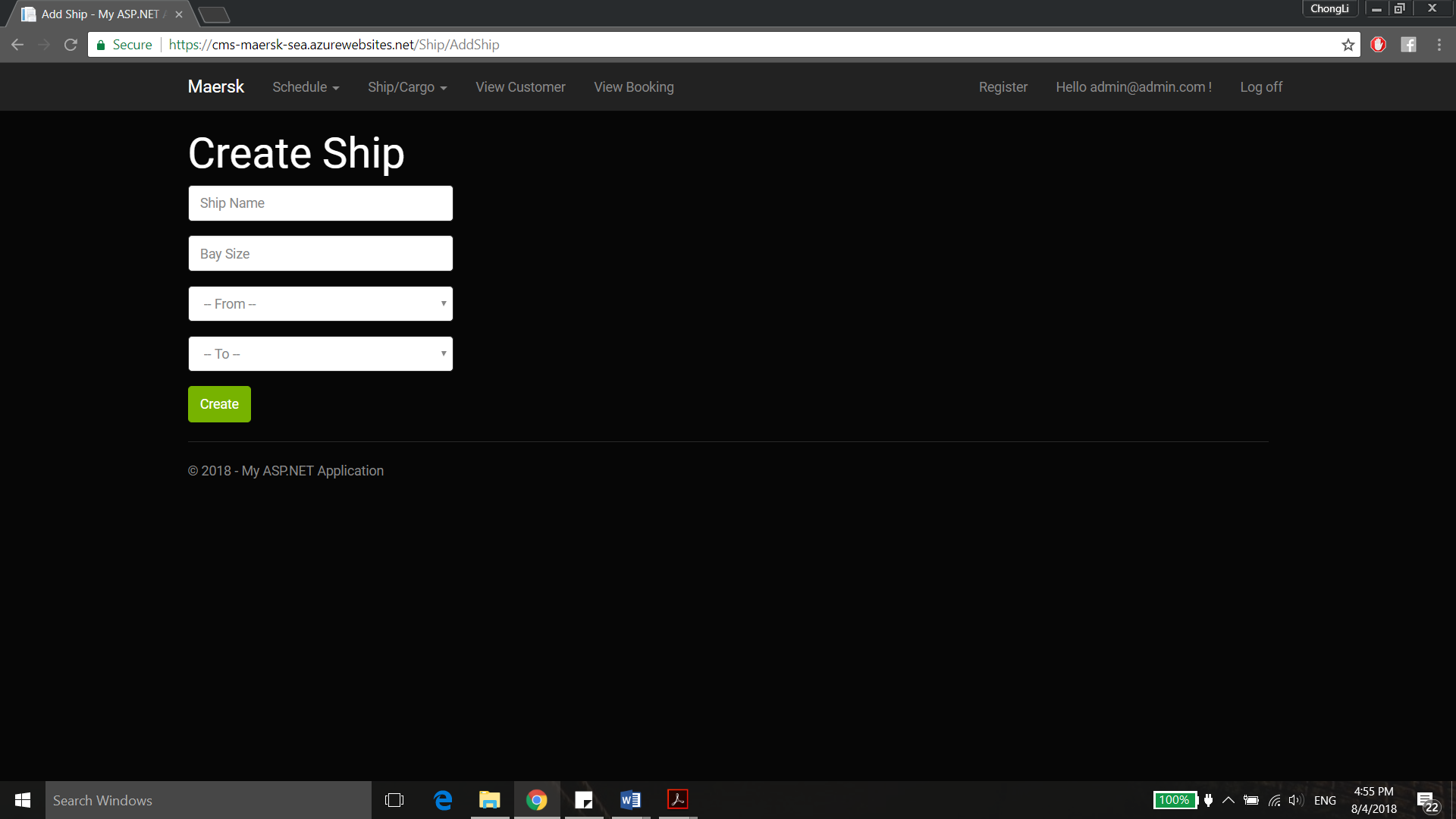


Figure 47: Add Ship Page

## 5.6 View Ship

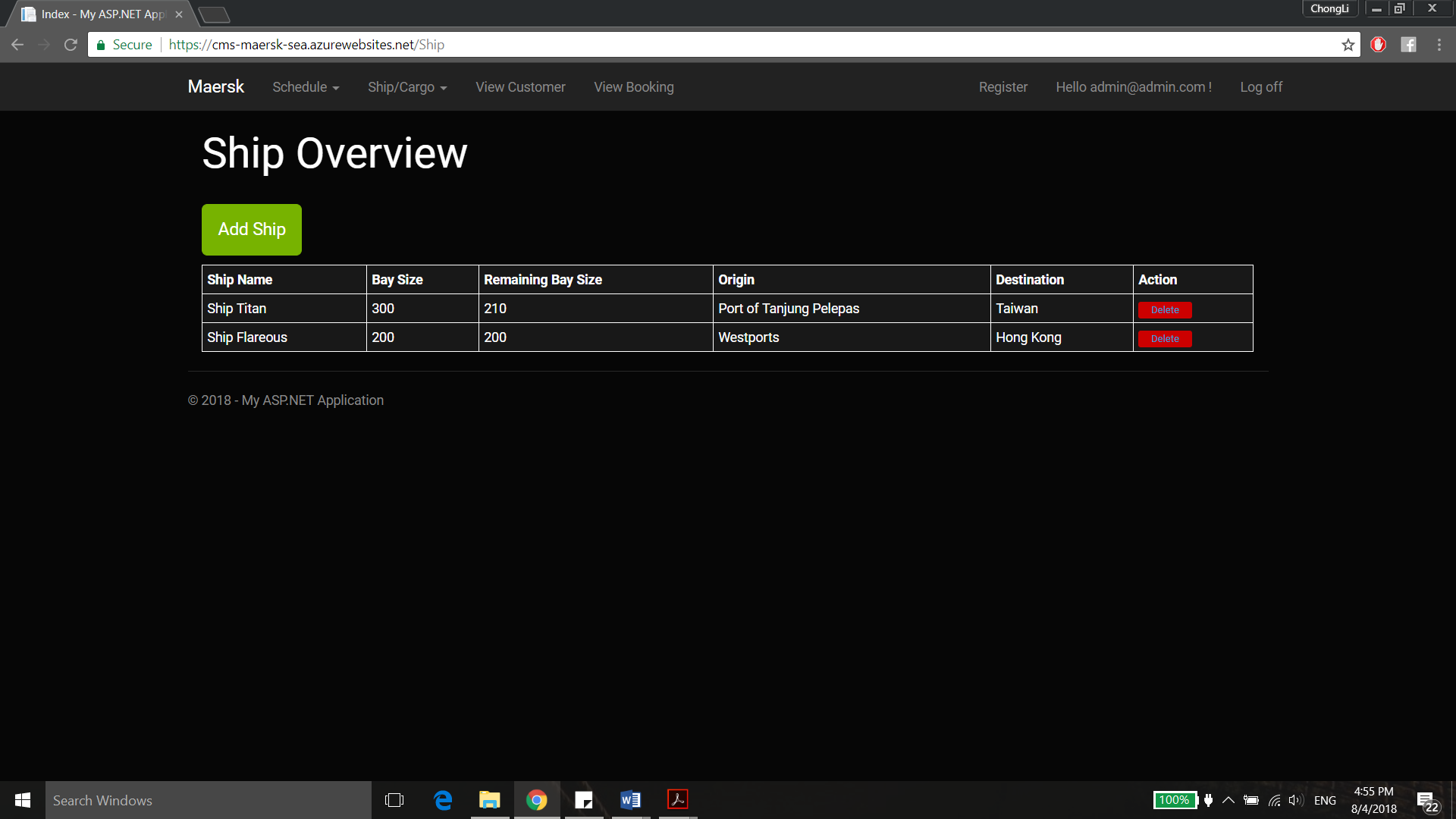


Figure 48: View Ship Page

## 5.7 Add Schedule

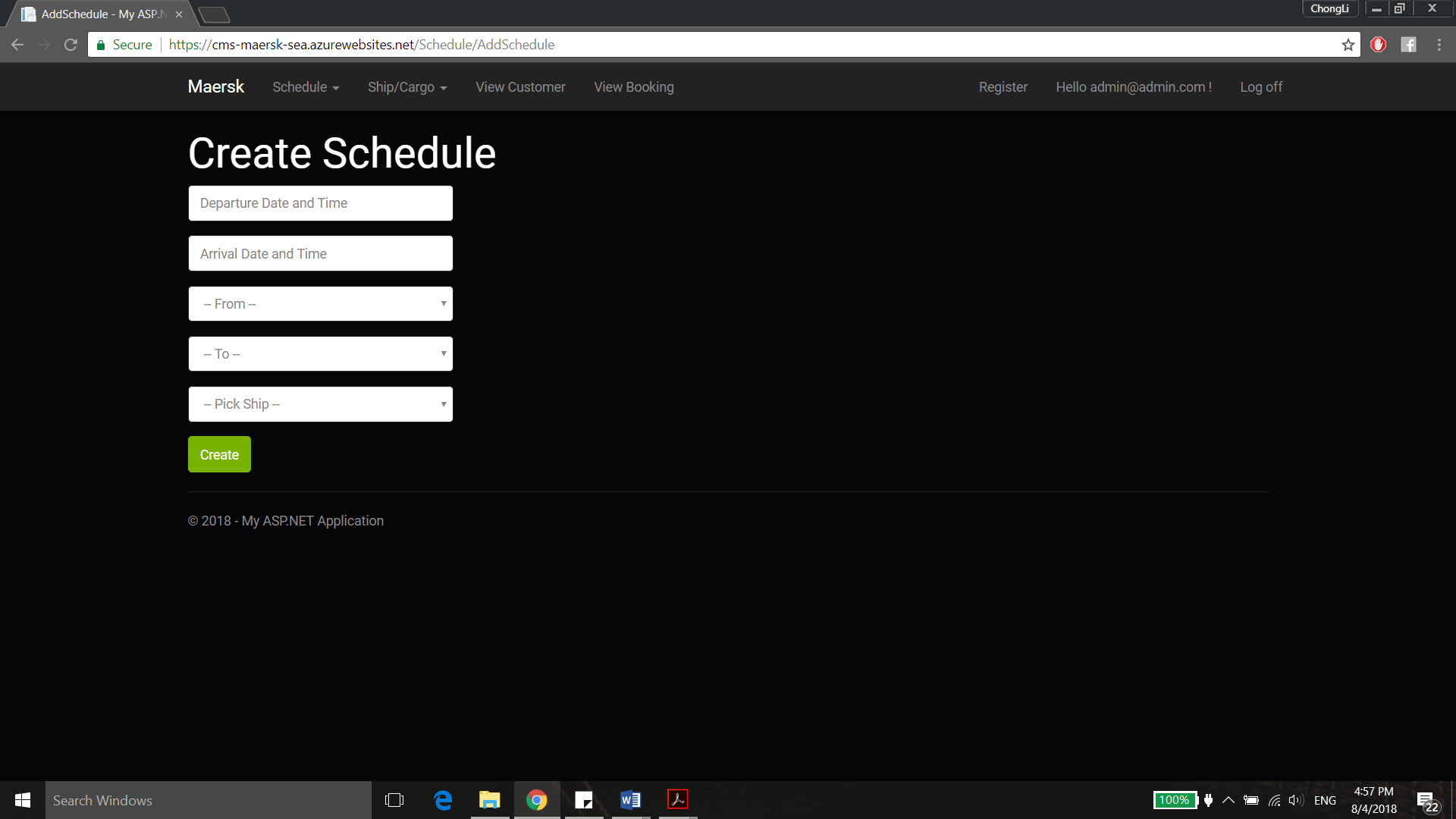


Figure 49: Add Schedule Page

## 5.8 View Schedule

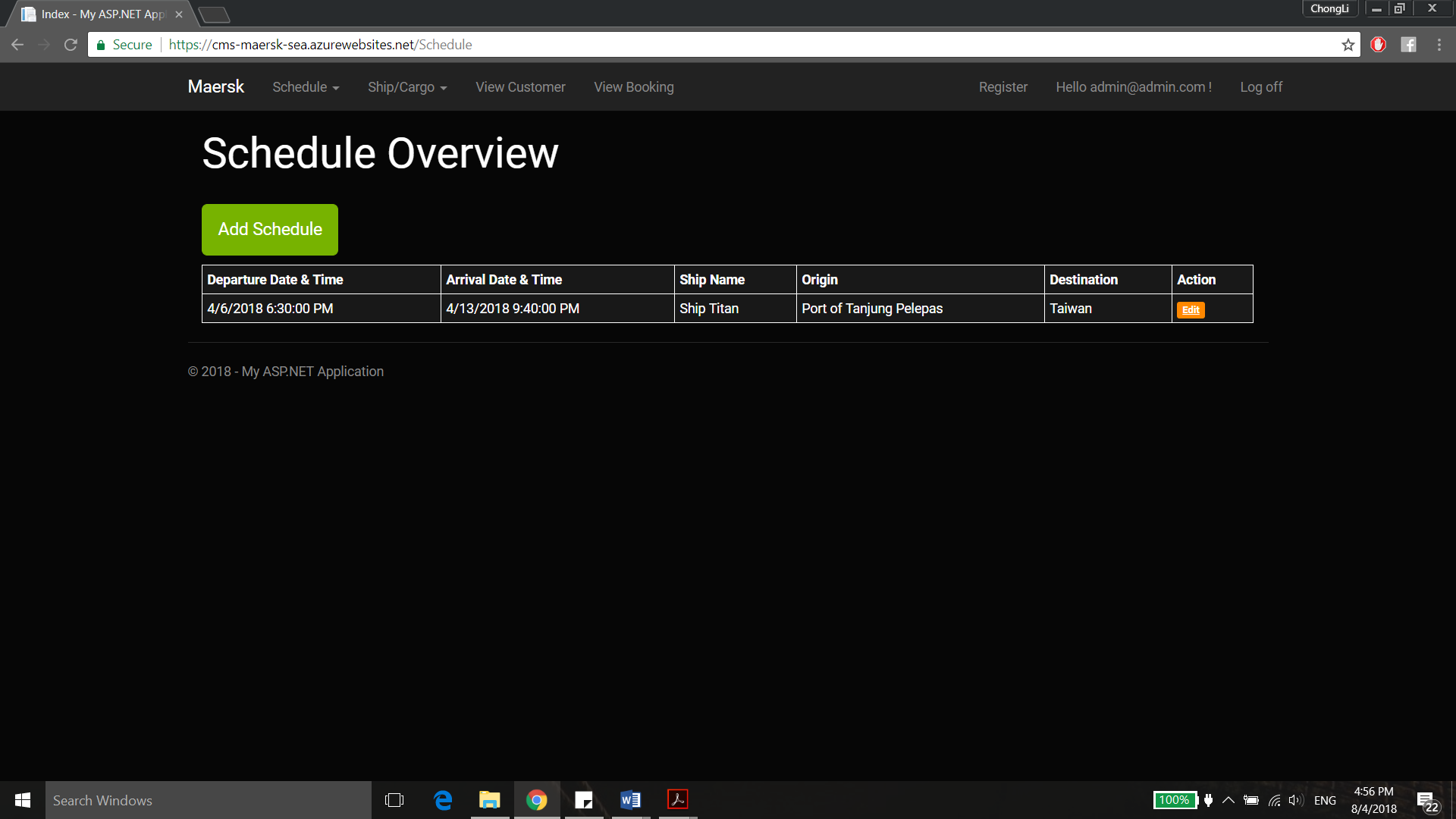


Figure 50: View Schedule Page

## 5.9 Edit Schedule

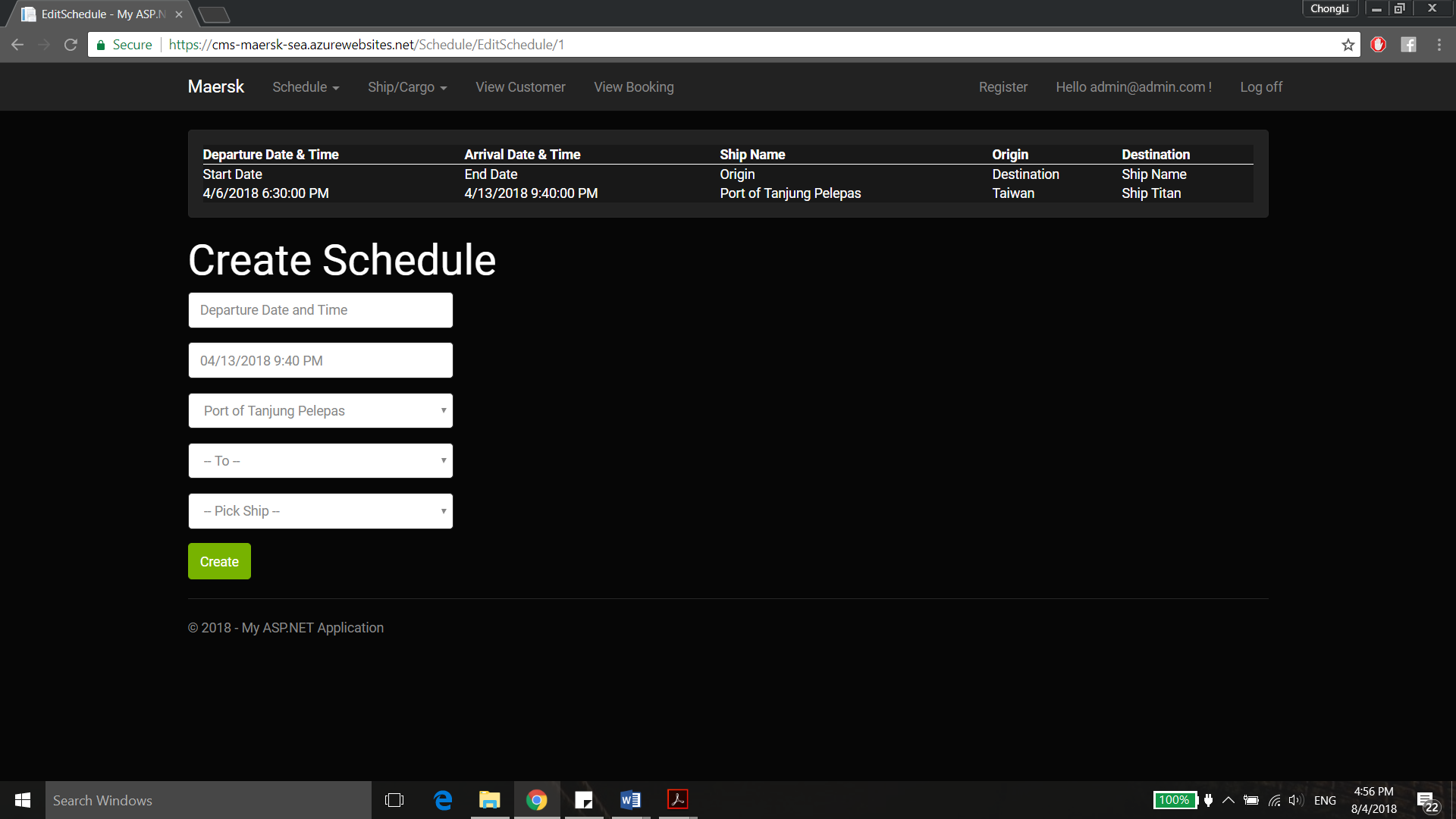


Figure 51: Edit Schedule Page

## 5.10 View Customer

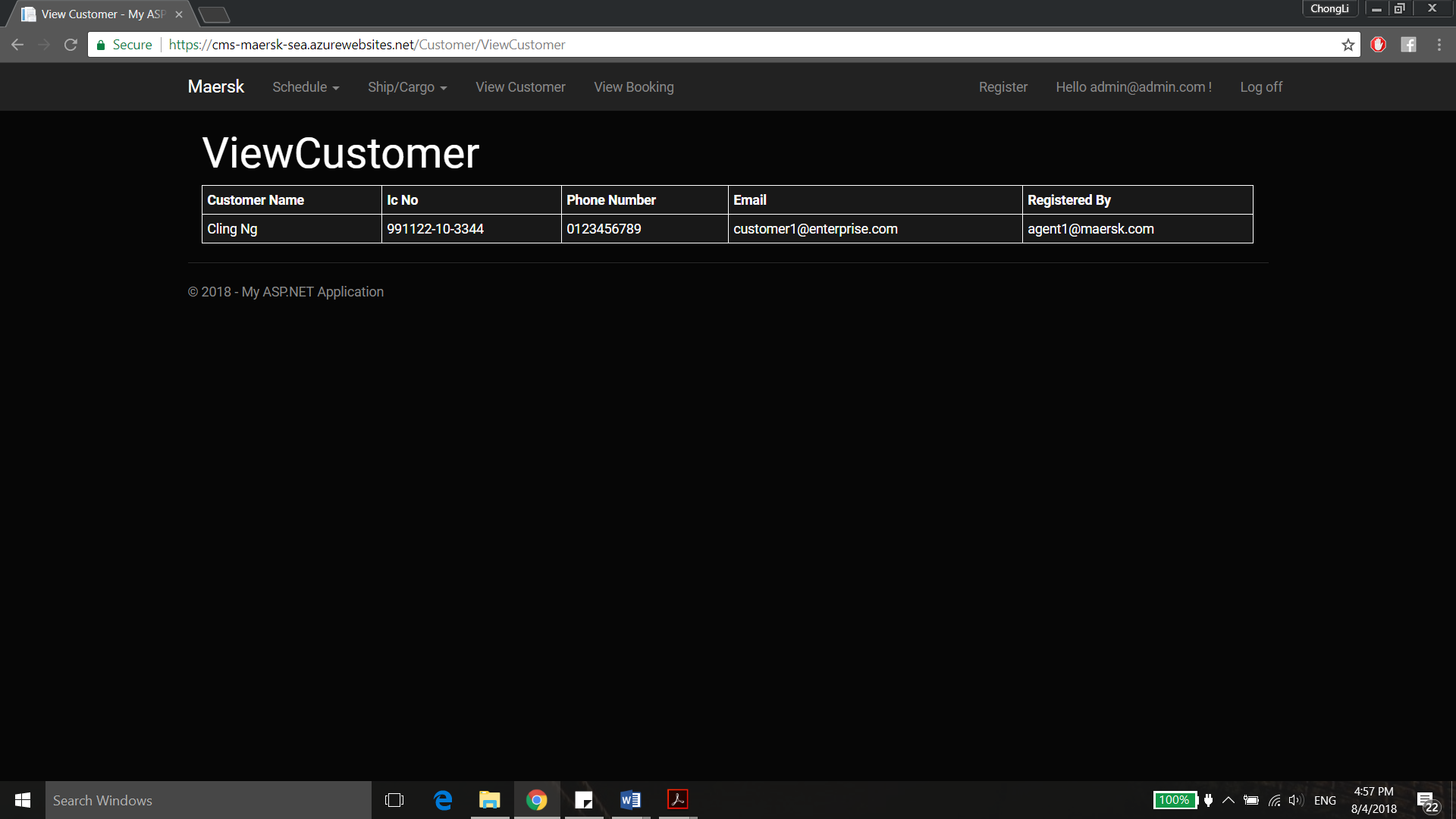


Figure 52: View Customer Page

## 5.11 View Booking

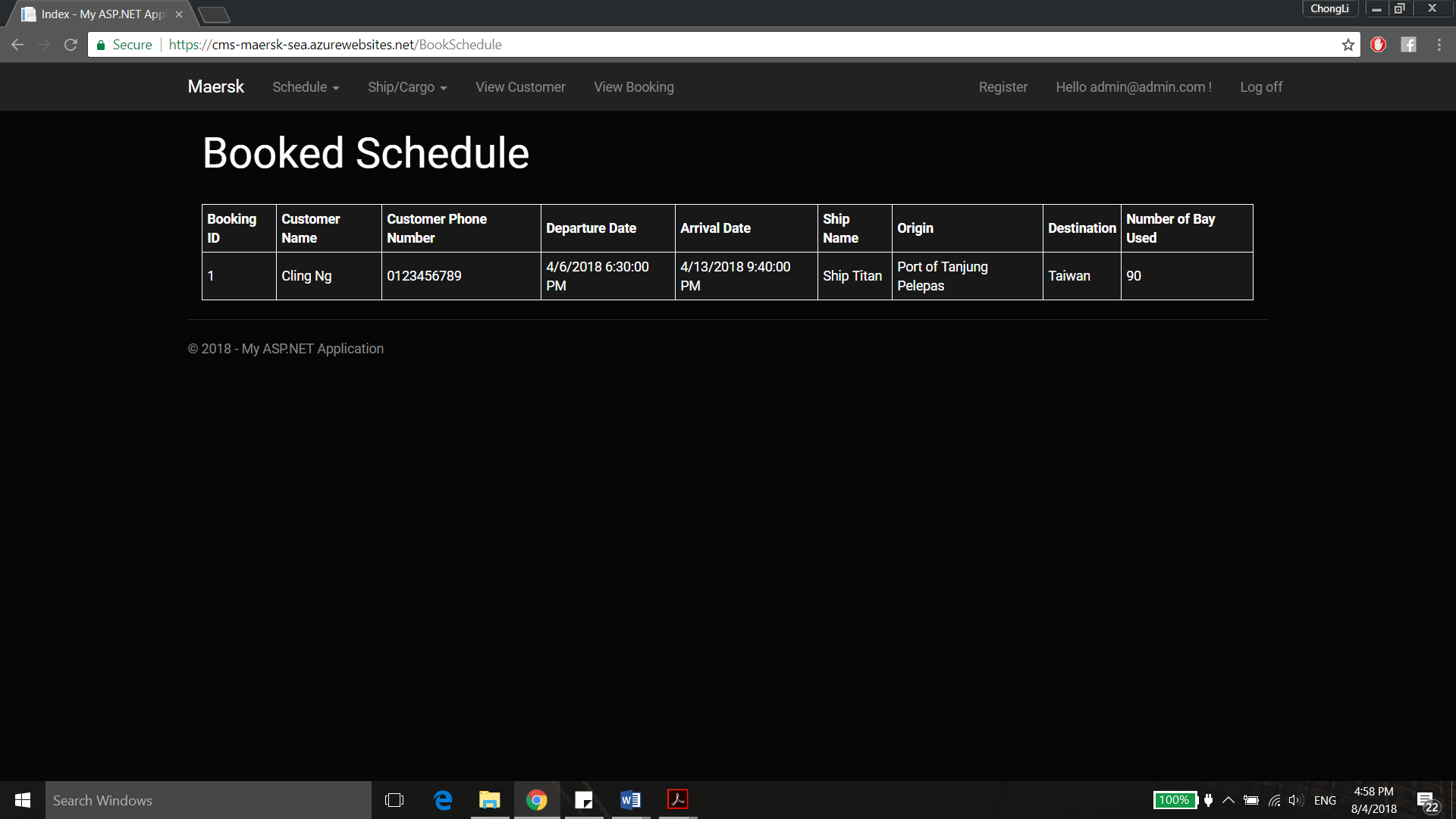


Figure 53: View Booking Page

## 5.12 Booking

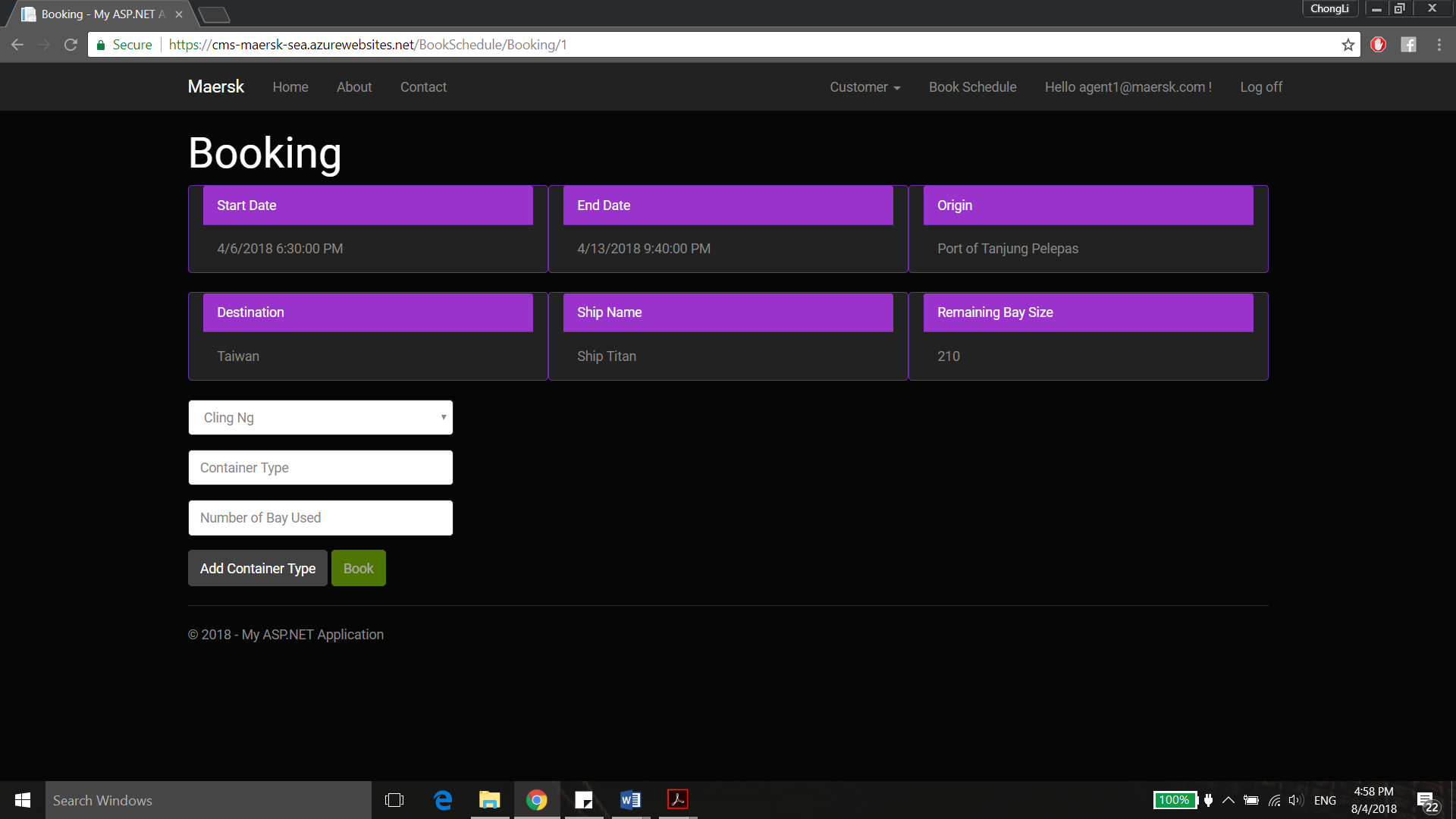


Figure 54: Booking Page

## 5.13 Register Customer

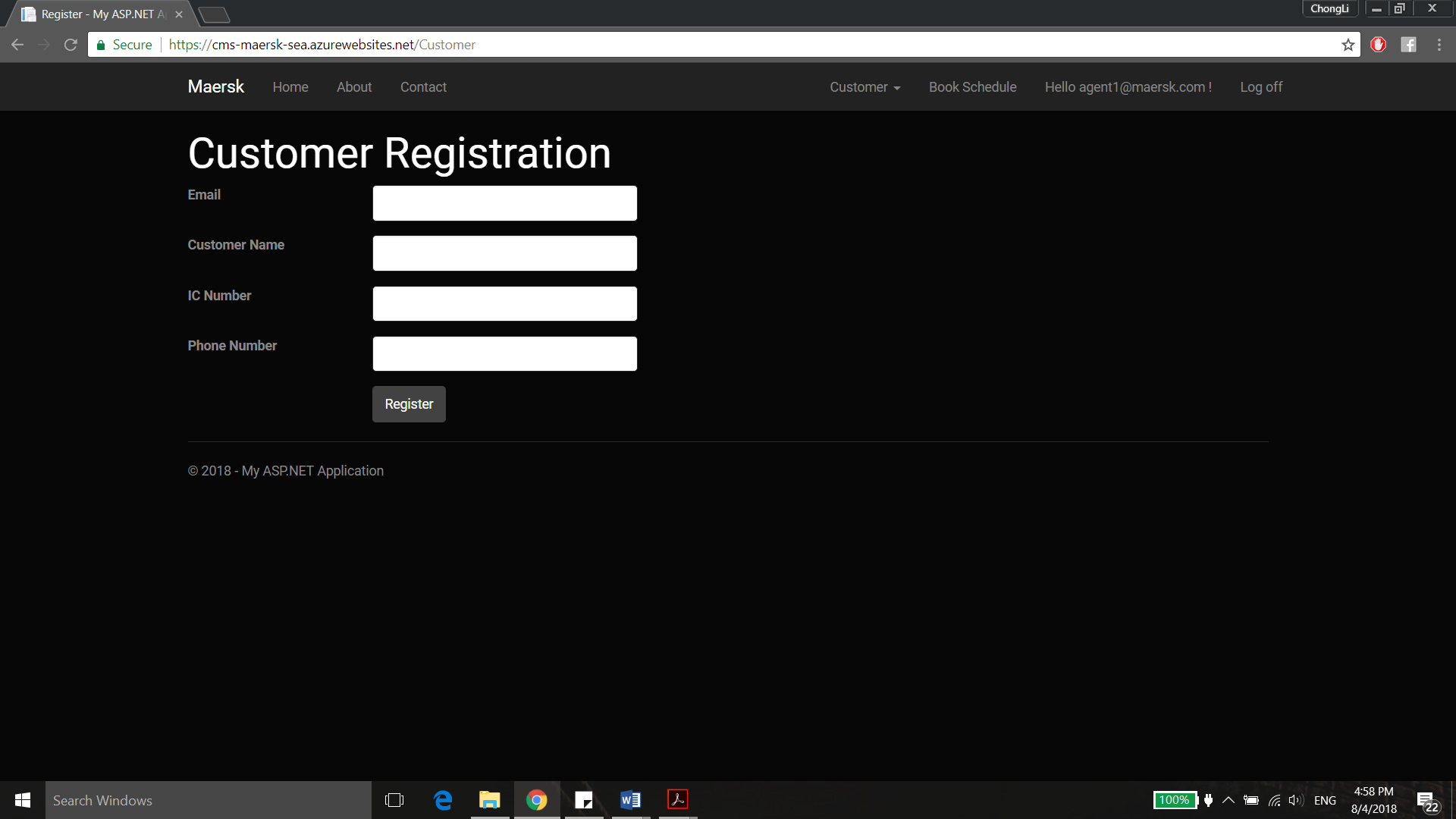


Figure 55: Register Customer

# 6.0 Testing

## 6.1 Performance Testing

By deploying the Maersk CMS onto the Azure platform, the developer can benefit from using Azure as deployment platform by having the ability to perform performance testing for the system. Performance testing can be known as the process of evaluating the quality or capability of a product.

This testing can be found in the Web App service, under “Performance Test”. Click “New” to create a new performance test request. A name is given for the test request “MaerskPerformanceTest01”, testing 250 user loads from “Southeast Asia” within 5 minutes.

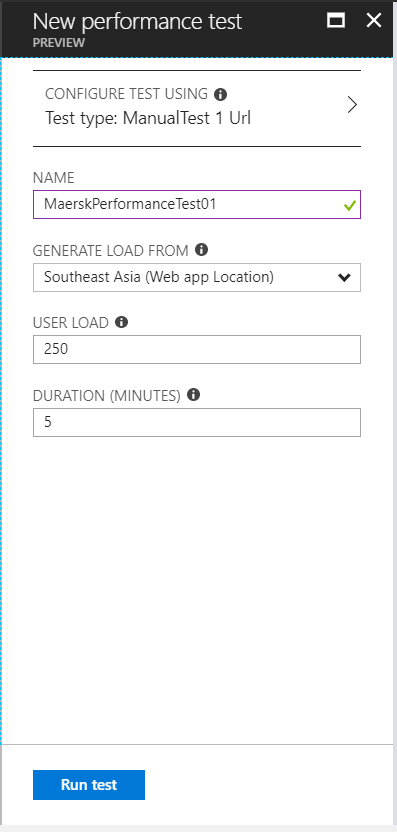


Figure 56: Setup Performance Testing for Web App

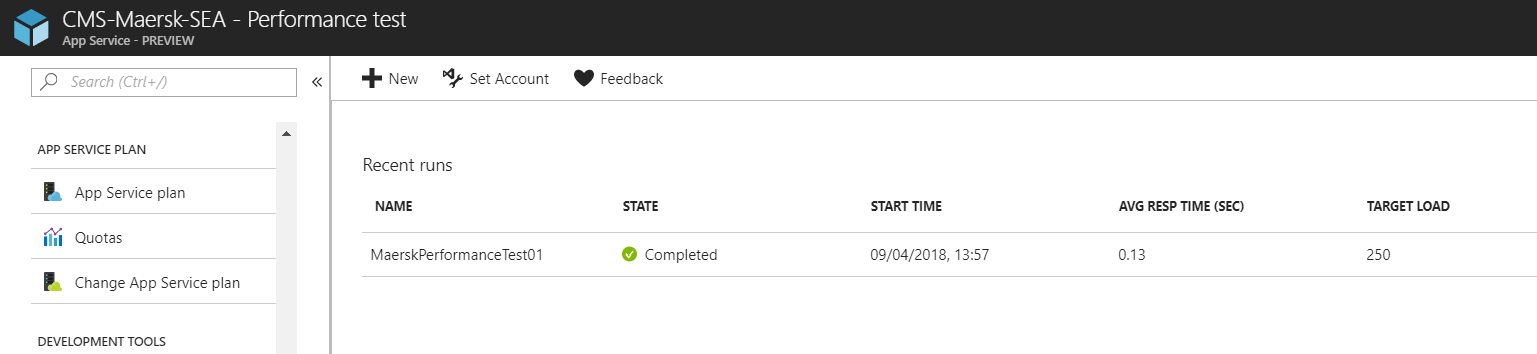


Figure 57: Performance Test completed

This test will take around 10 minutes to complete and the status will be changed to “Completed” as shown above. The result includes a pie chart displaying successful and failed requests. Upon completion in conducting this test, it shows that 68443 requests were sent and 100% of them were successful. Besides, the system has score an average response time of 0.13 seconds, running 250 user loads and serving in the speed of 236 requests per second., plotted base on time.

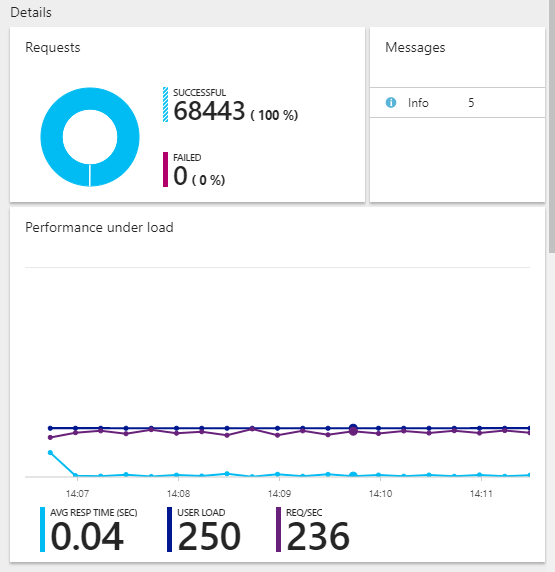


Figure 58: Result of Performance Test

## 6.2 Unit Testing

### 6.2.1 Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| LG-01 | Admin and agent login with wrong password | Email: [admin@admin.com](mailto:admin@admin.com) OR agent1@maersk.com  Password: Abcd-123 | Error message: “Login Unsuccessful” | As Expected |
| LG-02 | Admin and agent login with correct email and password | Email: [admin@admin.com](mailto:admin@admin.com) OR agent1@maersk.com  Password: Admin-123 OR Agent-123 | Success message: “Login Successful” | As Expected |
| LG-03 | Login with admin account | Email: [admin@admin.com](mailto:admin@admin.com)  Password: Admin-123 | Direct user to admin home page | As Expected |
| LG-04 | Login with agent account | Email: agent1@maersk.com  Password: Agent-123 | Direct user to agent home page | As Expected |

Table 12: Unit Test Login

### 6.2.2 Register Agent

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| RA-01 | Register agent with invalid email address | Email: testingEmail  Password: Test123  Company Name:  testingEnterprise | Error message: “Invalid Email” | As Expected |
| RA-02 | Register agent with correct email and password | Email: test@agent.com  Password: Test123 | Successfully register and jump back to home page | As Expected |
| RA-03 | Register agent with empty company name | Email: test@agent.com  Password: Test123  Company Name:  - | Error message: “Invalid Attempt” | As Expected |

Table 13: Unit Test Register Agent

### 6.2.3 Add Ship

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| AS-01 | Input all the required field with valid information. | Ship Name: Ship Flameouts  Ship Origin: Hong Kong  Ship Destination: Malaysia  Cargo Size: 200 | Add Ship successful. Success Message displayed. | As Expected |
| AS-02 | Input the required register criteria with invalid information. | Ship Name: 123  Ship Origin: 456  Ship Destination: 789  Cargo Size: aaa | Add ship unsuccessful. Error Message displayed. | As Expected |
| AS-03 | Do not complete filled in all the required information by leaving empty input. | Ship Name:  Ship Origin: Hong Kong  Ship Destination: Malaysia  Cargo Size: | Add ship unsuccessful. Display Error Message. | As Expected |

Table 14: Unit Test Add Ship

### 6.2.4 View Ship

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| VS-01 | Click on view ship. |  | Display the overview of ship information. | As Expected |

Table 15: Unit Test View Ship

### 6.2.5 Delete Ship

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| DS-01 | Click on delete button of a ship |  | Ship will be disabled and not shown in the list of available ships table. | As Expected |

Table 16: Unit Test Delete Ship

### 6.2.6 Add Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| ASC-01 | Fill in all the required add schedule criteria with valid information. | Origin: Taipei  Destination: Malaysia  Ship Departure Date: 04/18/2018 10:35 AM  Ship Arrival Date: 04/25/2018 10:40AM | Add Schedule successful.  Successful Message displayed | As Expected |
| ASC-02 | Does not fill in completely all the required information by leaving empty input. | Origin:  Destination: Malaysia  Ship Departure Date: 04/20/2018 10:35 AM  Ship Arrival Date: 04/28/2018 10:40AM | Add ship unsuccessful. Error Message displayed. | As Expected |

Table 17: Unit Test Add Schedule

### 6.2.7 Edit Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| ESC-01 | Edit the ship schedule with valid information. | Origin: Taipei  Destination: Malaysia  Ship Departure Date: 04/17/2018 08:00 PM  Ship Arrival Date: 04/25/2018 10:40AM | Edit schedule successful.  Successful Message displayed | As Expected |
| ESC-02 | Edit the schedule with incomplete information | Origin: Taipei  Destination: Malaysia  Ship Departure Date: Empty Input  Ship Arrival Date: 04/25/2018 10:40AM | Edit schedule unsuccessful. Error Message displayed. | As Expected |

Table 18: Unit Test Edit Schedule

### 6.2.8 View Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| VSC-01 | Click on view schedule. |  | Display the overview of schedule information. | As Expected |

Table 19: Unit Test View Schedule

### 6.2.9 Booking

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| BK-01 | Input all the required field with valid information. | Customer: Pei Jean  Container Type: Rocks, Apple  Bay used: 20, 60 | Booking successful. Booking successful message displayed. | As Expected |
| BK-02 | Fill in the required field with invalid information. | Customer:  Container Type: 123  Bay used: abc | Booking unsuccessful. Error Message displayed. | As Expected |
| BK-03 | The cargo size is insufficient to sustain the bay to be used. | Bay used: 120  Remaining cargo size: 100 | Booking unsuccessful. Error Message displayed. | As Expected |

Table 20: Unit Test Booking

### 6.2.10 View Booking

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| VBK-01 | Click on view booking. |  | Display the overview of all booking information. | As Expected |

Table 21: Unit Test View Booking

### 6.2.11 Register Customer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| RC-01 | Fill in all the required field with valid information. | Customer Name: Jason Shang  IC Number: 960101-10-0101  Contact Number: 0123456789  Email: [jason\_shang@hotmail.com](mailto:jason_shang@hotmail.com) | Register customer successful.  Successful Message displayed. | As Expected |
| RC-02 | Input invalid information for the required field. | Customer Name: 123  IC Number: abc  Contact Number: 011999aacc  Email: Hotmail.hotmail.com | Register customer unsuccessful. Error Message displayed. | As Expected |
| RC-03 | Do not completely filled in all the required information. | Customer Name:  IC Number:  Contact Number:  Email: john@hotmail.com | Register customer unsuccessful. Error Message displayed. | As Expected |

Table 22: Unit Test Register Customer

### 6.2.12 View Customer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Data** | **Expected Result** | **Actual Result** |
| VC-01 | Click on view customer. |  | Display the overview details of customer information. | As Expected |

Table 23: Unit Test View Customer

# 7.0 Conclusion

In retrospection, the Maersk Line – Container Management System (CMS) has eventually completed with successful designed, developed, and deployed to the Microsoft Azure cloud platform. The web application was designed and developed locally by developer at first using Visual Studio ASP.NET MVC web application with code first migration concept. The web application will be deployed and connected to the SQL server and database that are hosted in the Microsoft Azure. After the development of the web application is completed, the solution is then deployed to two (2) different regions, Southeast Asia and Central US, and are connected together as the end points of Azure Traffic Manager. This can ensure the availability and the performance of the application. Finally, the solution is tested for performance with the in-built Azure web app performance test and unit testing also being conducted. By conducting all the activities mentioned above, the Maersk Line – Container Management System (CMS) will be dedicated to serve its purpose of being a solution that reduces overall supply chain costs and efficient way to manage logistics.

# 8.0 References

* Microsoft, 2016. *Azure SQL Database benchmark overview.* [Online]   
  Available at: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-benchmark-overview  
  [Accessed 7 March 2018].

# 9.0 Appendix

1. Source code of Maersk Line CMS (GitHub repository)
   * <https://github.com/LiewChongLi/DDAC>
2. Azure & System Demonstration Video
   * The video is included in the CD attached together with this document, or can be accessed on Microsoft Streams:

<https://web.microsoftstream.com/video/4be0599f-45c5-4045-90c1-6efa02aa496d>

1. Azure Web App URL
   * <http://maersk-traffic-manager.trafficmanager.net> (Traffic Manager)
   * <https://cms-maersk-sea.azurewebsites.net> (Southeast Asia region)
   * <https://cms-maersk-centralus.azurewebsites.net> (Central US region)
2. Sample User Credential for Testing
   * Admin Account
     + Email: [admin@admin.com](mailto:admin@admin.com)
     + Password: Admin-123
   * Agent Account
     + Email: [agent1@maersk.com](mailto:agent1@maersk.com)
     + Password: Agent-123