

# CT071-3-3-DDAC

# INDIVIDUAL ASSIGNMENT

# Designing and Developing Applications on the Cloud

# **UC3F1706SE**

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## Acknowledgement

Above all else, I might want to offer my most profound thanks to my instructor, Dr.Kalai Anand A/L Ratnam, who has been giving me heaps of learning and thought regarding the Microsoft Azure Cloud Computing. Furthermore, he was additionally exceptionally accommodating and gives proficient exhortation on the most proficient method to convey a web application to Azure App Service. Not just that, he gives valuable materials and instruments that assistance me to spare a great deal of time on sending the web application and finish the task on time.

I additionally need to accept this open door thank to my course mates, who educate and manage me all the time in this task. They will give assistance and show me about the C# programming and a few highlights of Microsoft Visual Studio 2015 that I have never utilized. In the meantime, I welcome that my course mates who will share their insight and help me to finish this task.

Taking everything into account, I have increased more information about the Azure Cloud Computing which is exceptionally valuable, since it could help me to apply it in my future works.

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#### 1.0 Introduction

#### 1.1 Project Background

Maersk Line is the global container division and the largest operating unit of the A.P. Moller – Maersk Group, a Danish business conglomerate. It is the world's largest container shipping company having customers through 374 offices in 116 countries. It employs approximately 7,000 sea farers and approximately 25,000 land-based people. Maersk Line operates over 600 vessels and has a capacity of 2.6 million TEU. The company was founded in 1928.

Operating in 100 countries and transporting goods around the globe, at first glance it would appear Danish shipping company Maersk Line is already handling all the cargo it can manage. But when Maersk determined that the volume of most of the goods it was shipping had grown to full capacity, the company decided that cloud powered solutions would be a crucial part of rectifying the situation.

"There was a 'mind-opener' where Maersk said, 'How can we support the overall business strategy, and also from an IT perspective," says Soeren Lorenzen, an account general manager with Hewlett-Packard company who is involved first-hand with Maersk's ITO efforts. "There was a new CIO who wanted to outsource every part of IT, but without [negatively] impacting shipping."

In an effort to support further business growth and increase organizational flexibility, Maersk decided to consolidate all of its data centers and server rooms operating worldwide onto a virtualized platform. Microsoft Azure was already hosting some of Maersk's IT environment, and in March 2016 Maersk initially approached Microsoft about expanding the scope of the relationship. Moving forward, Lorenzen says Maersk is currently changing over

its IT setup based on Microsoft Azure, starting with the desktop environment up to container management.

#### 1.2 Project Objective

This project is aimed at developing a web application and deploy it on the Microsoft Azure Cloud Services, which allows the admin to manage the Maersk cargo and shipping through the website. In this system, admin is able to make reservation for the company who want to ship their parcel by using container. Besides, it also allows the admin to register a container, ship, and shipyard. Not only that, the admin can also view the reservation and other information that had been registered in this system.

#### 1.3 Project Scope

The scope of this project will include the design and development of the web application based on the Maerks Line requirement. This system requires a database to store the reservation and others information by using SQL database from Azure. This web application provides a login page for admin login. It is to make sure that the website is secured and prevent anonymous from stealing information. After the website has developed, it will be deployed on the Microsoft Azure Cloud Services. Traffic manager will be implemented in order to control the request from web clients. The website will be distributed to the nearest point based on the user request location. Lastly, the performance testing will be done and analysed if there is any possibility of existence of bug. This is to ensure that the system will perform smoothly when deployed.

#### 1.4 Project Specification

Below are list of requirements and goals that are to be implemented on the web application.

**Provisioning:** You must be able to provision the new application to the Microsoft Azure Platform.

*Maintainability:* You must be able to upgrade the application and perform other maintenance tasks while multiple tenants are using it.

*Monitoring:* You must be able to monitor the application at all times to identify any problems and to troubleshoot them. This includes monitoring how each tenant is using the application.

**Availability:** Tenants want the application to be constantly available, perhaps with guarantees defined in an SLA. Again, the activities of other tenants should not affect the availability of the application.

**Scalability:** The application must be scalable to meet the demand of the application.

#### 1.5 Project Deliverables

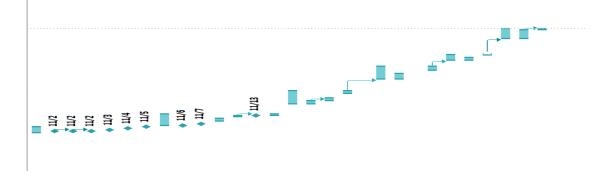
The Maerks Line web application is available and compatible with different types of browser, such as Google Chrome, Mozila Firefox, Microsoft Edge, and others. Users will be able to perform all the functionalities that listed below.

- User able to register ship, container, and shipyard in the web application.
- User able to make reservation for the shipment.
- User able to perform update and delete the reservation, ship, container, and shipyard in this web application.
- User able to view the details, such as registration information.
- User able to view the details of shipment information, such as departure time, arrival time, price, departure shipyard, and arrival shipyard.

# 2.0 Project Plan

The project plan for the software developer is to follow the Gantt Chart in developing the web application by using Visual Studio 2017 with MVC. After the web application is developed, the software developer will deploy the web application to the Microsoft Azure Cloud Services. Traffic manager will be implemented to the web application. After that, performance testing will be conducted to make sure that the system is running well.

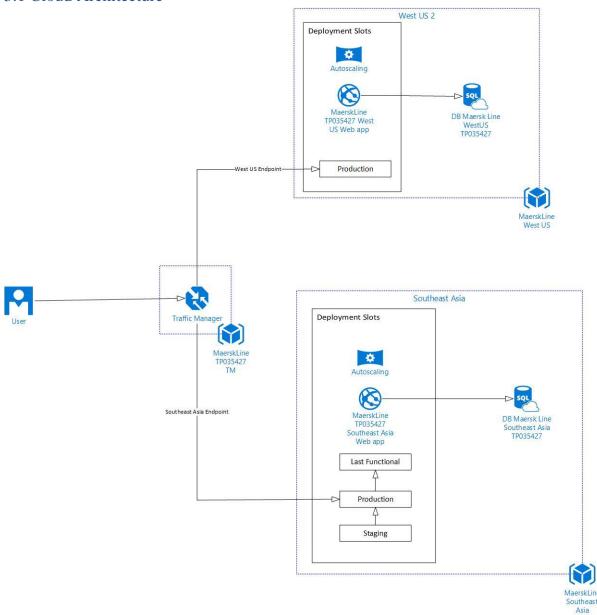
# 2.1 Project Plan



/5	12	11/2 2	11/2 3	11/3	11/4	11/5	11/14	11/6	11/7	11/11	11/13	11/13 12	11/14	11/30	11/23	11/25 16	11/30	12/17 18	12/12	12/17	12/25 21	12/23	12/25	12 24	1/11	1/12 26	
11/1 11/5	11/2 11/2	11/2 11,	11/2 11,	11/3 11,	11/4 11,	11/5 11,	11/6 11	11/6 11,	11/7 11,	11/9	11/12 11,	11/13	11/13	11/21 11	11/21	11/23 11,	11/28 11,	12/8 12	12/8 12,	12/14 12	12/21	12/21	12/24 12,	1/5 1/12	1/5 1/:	1/11 1/:	
1.0 Planning Phase	Porject Background	Project Objectives	Project Scope	Project Specifications	Project Deliverables	Gantt Chart	2.0 Design Phase	Cloud Design Pattern	Architectural Design	Design Consideration	Use Case Diagram	Use Case Description	Sequence Diagram	3.0 Implementation	MVC Backend Development	Front End	Azure Active Directory Intergration	4.0 Deployment	Resource Group, Web App and Database	Traffic Manager	5.0 Testing	Performance Testing	Unit Testing	6.0 Conclusion	Documentation	References	

# 3.0 Design

## 3.1 Cloud Architecture



#### 3.2 Design Consideration

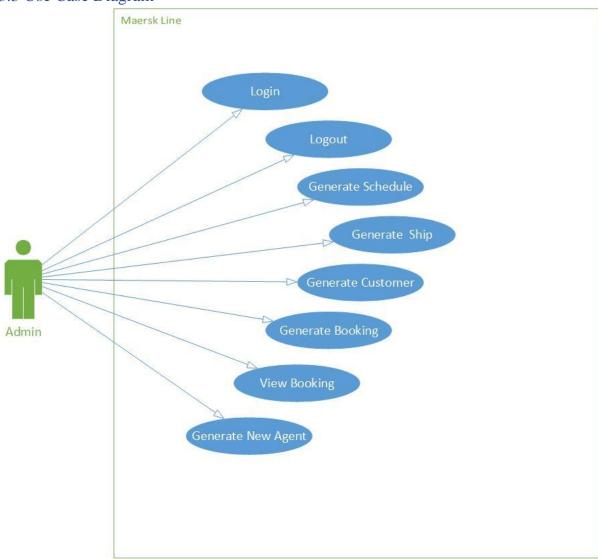
Above all else, the product engineer needs to make another space of the web application, which is <a href="http://maersklinelsf.azurewebsites.net">http://maersklinelsf.azurewebsites.net</a>. The space name is connected with the Maerks Line site. Furthermore, the space name is made when the product designer distribute the web application shape Visual Studio 2017 to the Microsoft Azure Cloud Services. Clients can without much of a stretch access to the web application by utilizing this space name whenever.

The outline of the web application is straightforward and clear. The product designer utilizes the straightforward format and site layout to build up the web application as it can be effortlessly comprehended by the clients. As per straightforward sites does not contain over the top data which would make client effortlessly explore and keep up without reading to numerous confounding articulation. For instance, the client could without much of a stretch read a straightforward word or symbol and discover the catch with basic UI. Basic web application could convey great impression to the clients who are utilizing it.

Programming designer utilized Model-View-Controller (MVC) to devleop the web application. This is on account of it incorporated with ASP.NET highlights, for example, ace pages, information official, and validation. Plus, it permits the product designer easily to oversee multifaceted nature by plunging a web application into the model, the view, and the controller.

The Maerks Line web application is accessible and perfect with various kinds of web program, for example, Google Chrome, Mozila Firefix, and Microsoft Edge. However clients are prescribed to utilize Google Chrome to access to the site since it is a superior web program.

# 3.3 Use Case Diagram



# 3.4 Use Case Specification

## Table 1: Login

Use Case ID:	1				
Use Case Name:	Login				
Summary:	The Users will be able to login into this website				
Dependency:	N/A				
Actors:	User				
Precondition:	The user will be required to enter the username and password in				
	order to login to the website.				
Description of the Main	1. The login page will be shown.				
Sequence:	2. Then, the framework will incite the client to fill in the				
	accreditations.				
	3. The client will then embed the username and secret key				
	4. The framework will then need to confirm the qualifications.				
	5. User signed in to the web application effectively.				
Description of	1. If login details are verified, then the users will be login into				
Alternative Sequence:	the web application.				
	2. If login details are invalid, then the system will prompt the				
	users to re-enters the user name password.				
Post-condition	The user is logged in to the web application.				

**Table 2: Create Schedule** 

Use Case ID:	2					
Use Case Name:	Create Schedule					
Summary:	The user creates a schedule for a company in the website.					
Dependency:	N/A					
Actors:	User					
Precondition:	The user will need to be logged in and also have entered the					
	valid schedule details.					
Description of the Main	1. Once logged in to the website					
Sequence:	2. The Home Page is displayed.					
	3. The user will need to select the "Schedule" option.					
	4. The system will then prompt the user to click the create					
	button.					
	5. The user will then insert all of the Schedule details.					
	6. After that, the System will verify information.					
	7. Shipment is created and saved into the database.					
Description of	1. If shipment details are invalid or entered wrongly, then the					
Alternative Sequence:	system prompts the user to re-enter the Schedule details					
Post-condition	Schedule details are stored into the database system.					

**Table 3: Create Ship** 

Use Case ID:	3					
Use Case Name:	Create Ship					
Summary:	User registers container into this website.					
Dependency:	N/A					
Actors:	User					
Precondition:	The user will need to be logged in and the user requires to insert					
	the valid container details.					
Description of the Main	1. Once logged in to the website					
Sequence:	2. The Home Page is displayed.					
	3. The user will then select the "Ship" option.					
	4. The system will prompt the user to click the create					
	button.					
	5. The user will then insert the container details.					
	6. After that, the system verifies the information.					
	7. Once verified the container will then be created into the					
	database itself.					
Description of	1. If container details are invalid or entered incorrectly, then					
Alternative Sequence:	the system prompts the user to re-enter the container details					
Post-condition	Container details are stored into the database system.					

**Table 4: Create Shipyard** 

Use Case ID:	4					
Use Case Name:	Create Customer					
Summary:	User registers shipyard into this website.					
Dependency:	N/A					
Actors:	User					
Precondition:	The user will need to be logged in and the user requires insert					
	the valid customer details.					
Description of the Main	1. Once logged in to the website					
Sequence:	2. The Home Page is displayed.					
	3. Then the User will need to select the "Customer" option.					
	4. Once done the system will prompt the user to click the					
	create button.					
	5. The user inserts customer details.					
	6. The system will then verify all of the information.					
	7. Once the verification is done the customer information					
	is created into the database.					
Description of	1. If customer details are invalid or entered incorrectly, the					
Alternative Sequence:	system prompts the user to re-enter the shipyard details					
Post-condition	Customer details are stored into the database system.					

**Table 5: Create Booking** 

Use Case ID:	5					
Use Case Name:	Create Booking/Orders					
Summary:	The user will need to be logged in and The user will need to be					
	logged in and only the user able to create the booking details.					
Dependency:	N/A					
Actors:	User					
Precondition:	All of the booking details must be created and saved in to the					
	database.					
Description of the Main	1. Once logged in to the website					
Sequence:	2. The Home Page is displayed.					
	3. The user selects the "Orders" option.					
	4. The system will prompt the user to create the booking					
	details by selecting the ship, customer and also the					
	schedule.					
	5. Once selected the user will be prompt to create the					
	container.					
	6. Once created it will be saved into the database.					
Description of	1. If booking details does not exist or it has not been made, then					
Alternative Sequence:	the user unable to view the shipment information.					
Post-condition	User able to create the booking details from the web application.					

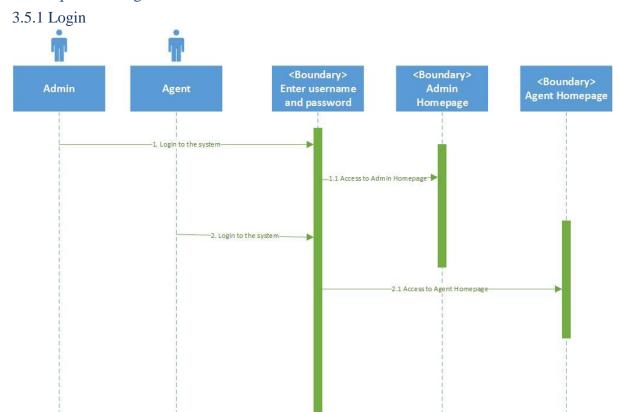
## **Table 6: View Booking**

Use Case ID:	6						
Use Case Name:	View Booking						
Summary:	The user will need to be logged in and The user will need to be						
	logged in and only the user able to view the shipment details.						
Dependency:	N/A						
Actors:	User						
Precondition:	All of the Shipment details must be created and saved in to the						
	database.						
Description of the Main	1. Once logged in to the website						
Sequence:	2. The Home Page is displayed.						
	3. The user selects the "View Booking" option.						
	4. The system will prompt the user to view the shipment						
	details.						
	5. The user can update and delete the shipment from the						
	table.						
Description of	1. If booking details does not exist or it has not been made,						
Alternative Sequence:	then the user unable to view the shipment information.						
Post-condition	User able to view the booking details from the web application.						

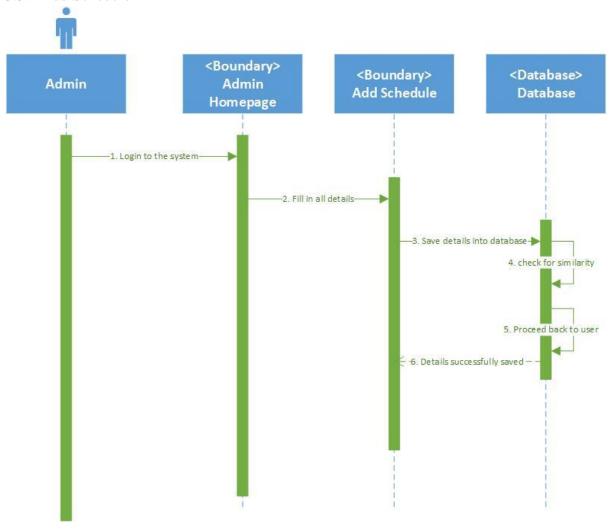
**Table 7: Create Agent** 

Use Case ID:	7					
Use Case Name:	Create Agent					
Summary:	The user will need to be logged in and only the user able to					
	create a new agent					
Dependency:	N/A					
Actors:	User					
Precondition:	All of the agent details must be created and saved in to the					
	database.					
Description of the Main	1. Once logged in to the website					
Sequence:	2. The Home Page is displayed.					
	3. The user selects the "New Agent" option.					
	4. The system will prompt the user to fill in all of the					
	agent's details					
	5. Once that is done the will need to click the create button					
	6. The agent's data will be saved into the database.					
Description of	1. If booking details does not exist or it has not been made,					
Alternative Sequence:	then the user unable to view the shipment information.					
Post-condition	User able to view the booking details from the web application.					

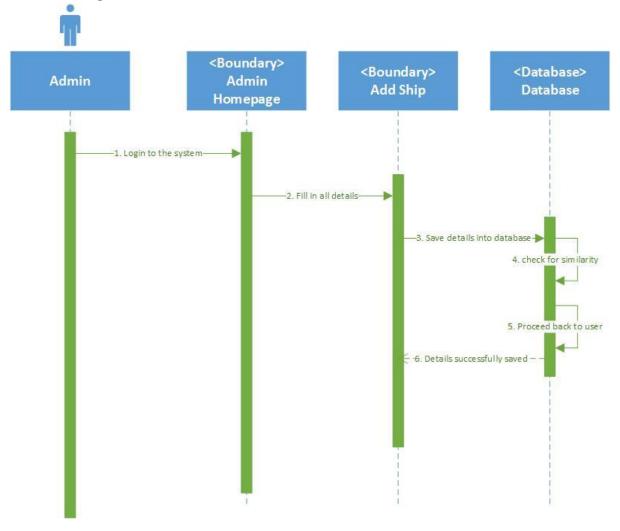
# 3.5 Sequence Diagram



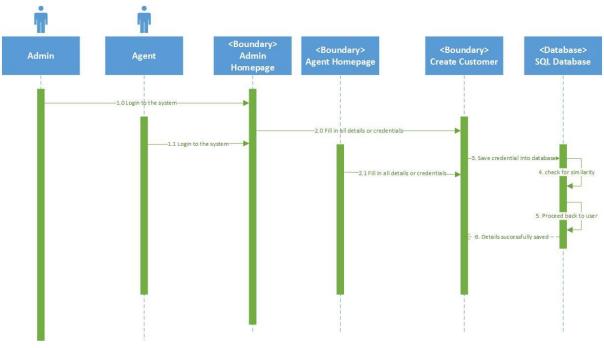
# 3.5.2 Add Schedule



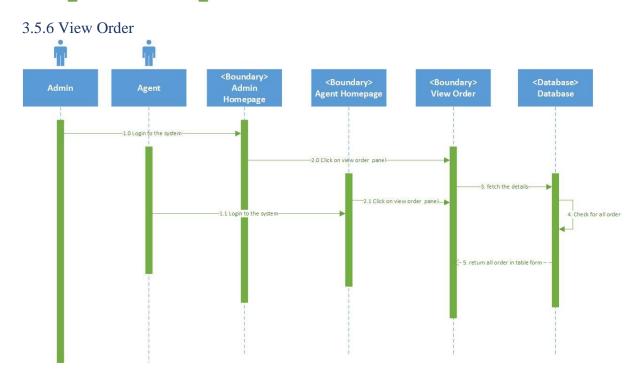
## 3.5.3 Add Ship



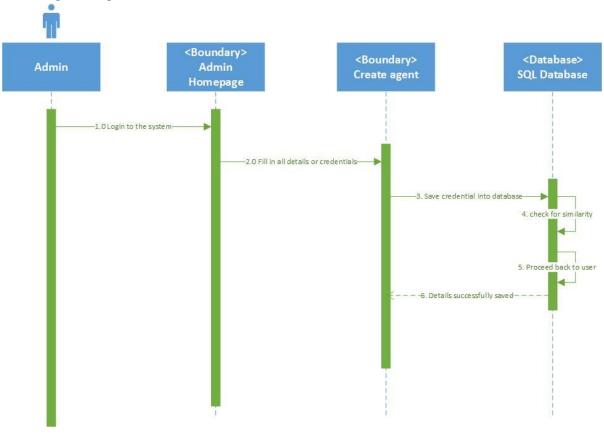
#### 3.5.4 Add Customer



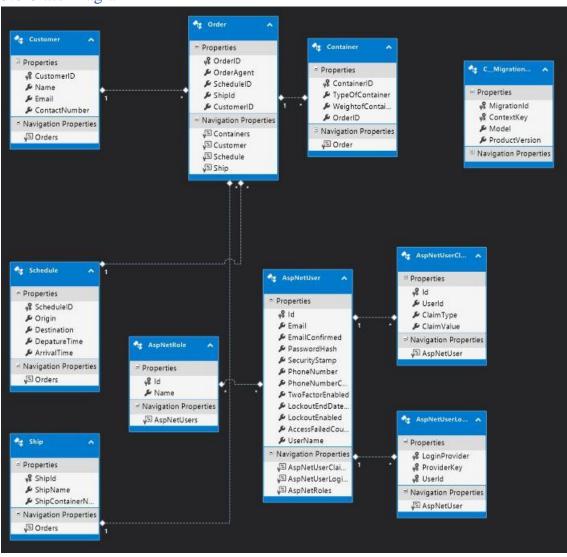
## 3.5.5 Add Order <Boundary> <Boundary> <Database> Admin Agent Admin Database Homepage -1.0 Login to the system--2.0 Select Schedule--2.1 Select Ship--2.2 Select Customer 1.1 Login to the system -2.3 Create Container-—3. Check details from database▶ 5. Proceed back to user - 6. Show selected details--8. create order -7. confirm order--10. successfully added-



## 3.5.7 Register Agent



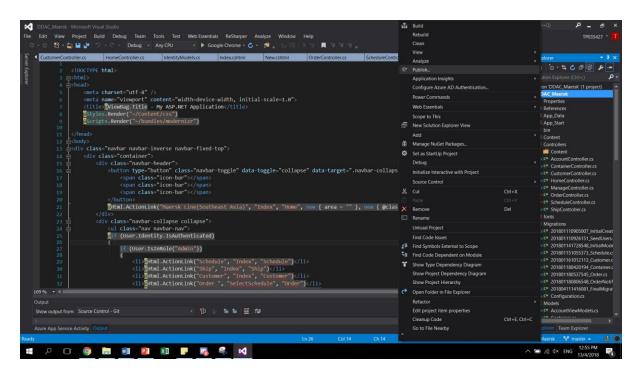
#### 3.6 Class Diagram



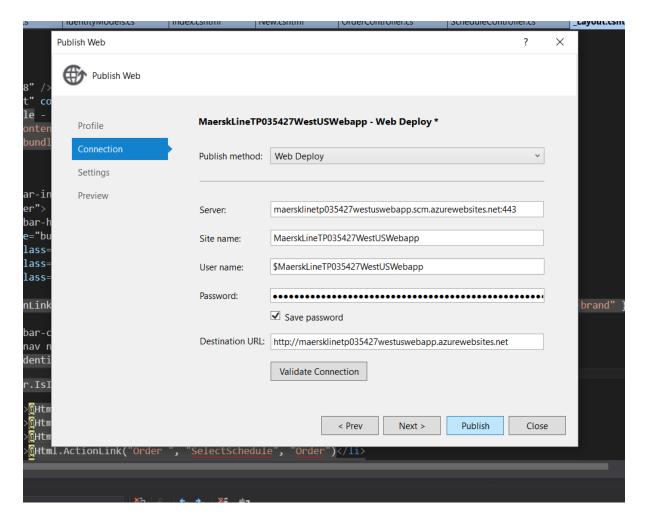
## 4.0 Implementation

#### 4.1 Create Web Application and SQL Database

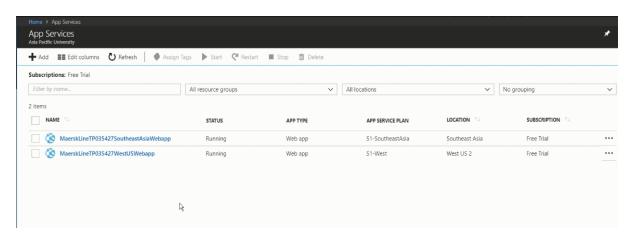
Right after the programmer has finished the improvement of Maerks Line web application, the accompanying advance will be to distribute it on to the Azure Cloud Services. To do this, the product engineer should right tap the document which is situated at the upper right-hand side of the show screen and after that select the "Publish..." alternative to publish it.



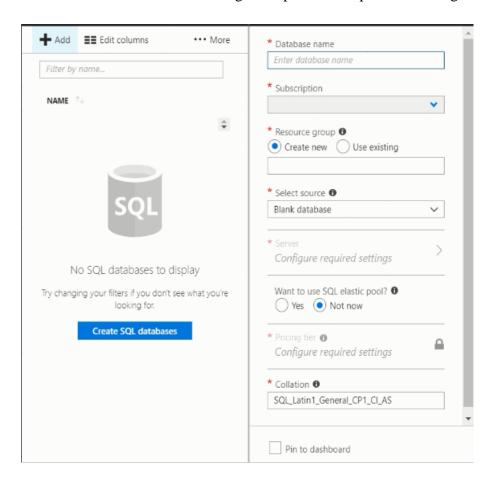
After the programmer has tapped on the publish alternative, the Visual Studio will then show a page where the client should tap on "make new profile". At that point, the framework will show a few distinct choices to enable the client to choose on the choices, for example, Microsoft Azure App Service, IIS, FTP, and so on, Folder, and Import profile. At that point, the product designer should choose on the Microsoft Azure App Service, and afterward select "Make New" alternative and snap "alright". From that point onward, the framework will incite the client to fill in the majority of the spaces, for example, compose the Web Application Name, Subscription, rename Resource Group, and select the App Service Plan.



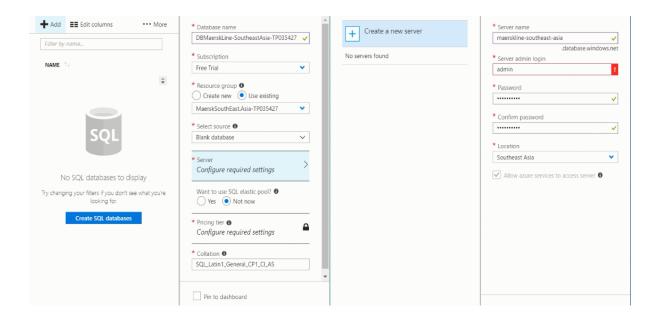
Method for application administrations creation in Azure which is done from Microsoft Visual Studio 2015. Subsequently, it contains the control setting for the web application itself. Other than that, the administrator of Azure can likewise stop the greater part of the administrations of running the site too on cloud. Also, it additionally gives a few sorts of administrations to the administrator to deal with the web application. The URL to the Maerks Line web application will be"... ". Besides, the client will likewise need to rehash the above strides by making another asset gather with the area at West US.



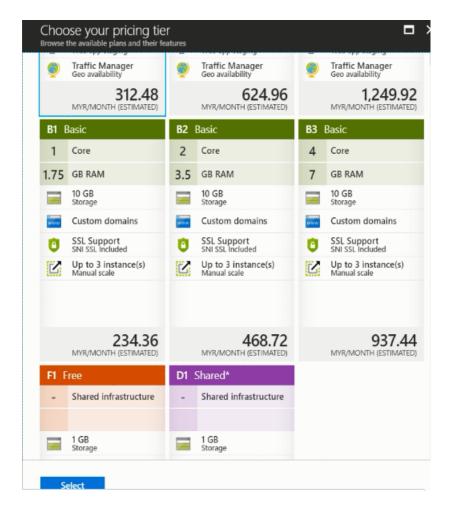
Once the programmer has transferred web application is effectively with no mistake or bugs, the client will be required to tap the "+" catch and look for the database choice. At that point, the framework will show a few sorts of choices to enable the client to choose from which are the SQL Database, SQL Data Warehouse, and others. From that point onward, the client needs to choose on the SQL Database alternative. After the determination is done, the client will be incited to fill in the greater part of the spaces that are given.



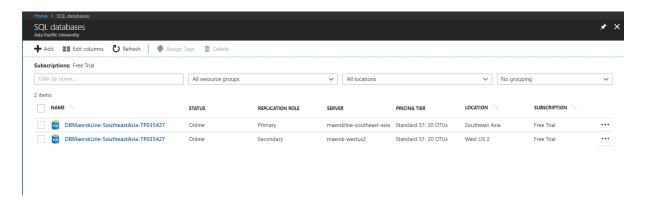
After the client has filled in the greater part of the spaces, the client will then need to pick a few alternatives. Right off the bat, the client is required to tap on the "Make new" for the assets bunch alternative. At that point, the client should make a server for the database by tapping on the "Server" choice. When the majority of that is done the framework will then incite the client to fill in the greater part of the spaces again for the new server.



The client should tap on the "Valuing level" choice for the database stockpiling. From that point forward, the client is prescribed to choose the Basic bundle which the cost is significantly less expensive than the Standard bundle itself. Once that is done, the client should tap the "Apply" catch to affirm the choice of the bundle.



After the advance of making the SQL database has been finished, the assets aggregate classification will then show a "ShipDatabase" asset. Inside the asset gathering, it contains two unique records, which are the DBMaerskLine-SoutheastAsia (SQL DB) and furthermore the DBMaerskLine-WestUS (SQL DB).



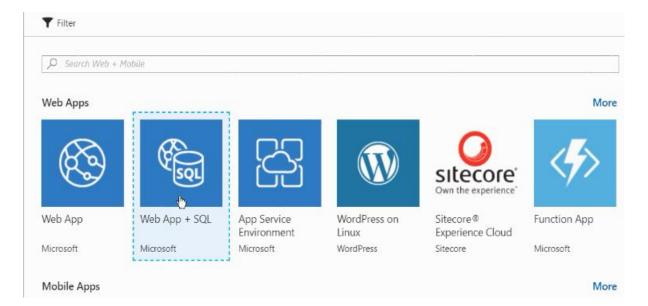
Once the server has been done the client will require needs to go to the "Geo Replication" and interface the databases on the two districts.



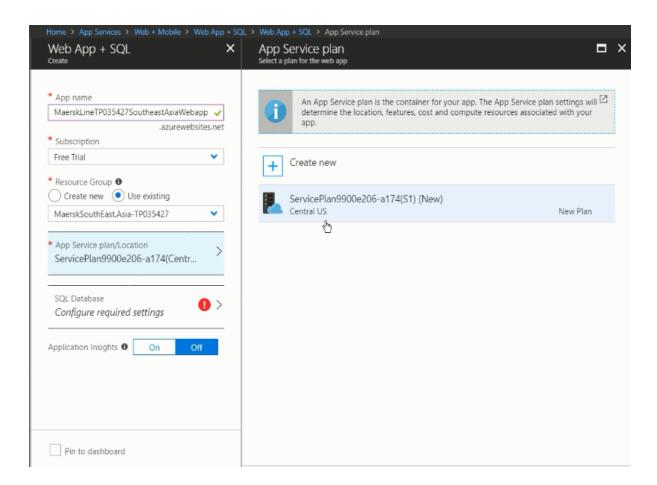
When it has been associated it will have an unmistakable line as expressed on the highest point of the photo.



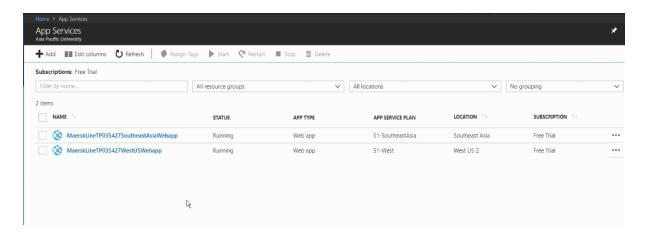
Once that is done the client should Create the Web application and furthermore the Sql. The client should choose from the "Internet App + SQL".



Once the client has chosen the "Internet App + SQL" the client should fill in the greater part of the required spaces that are required.

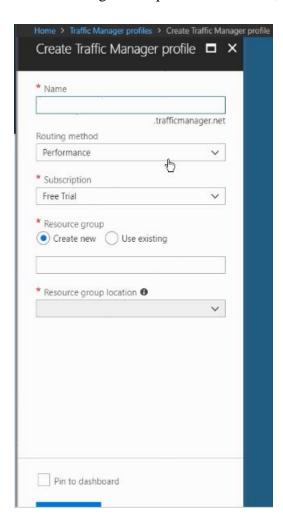


Once that is done the client should revive the application administrations to have the capacity to see both of the web applications.

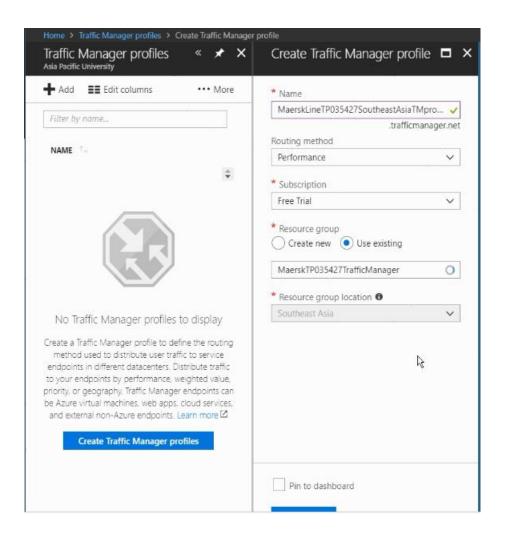


## 4.2 Traffic Manager

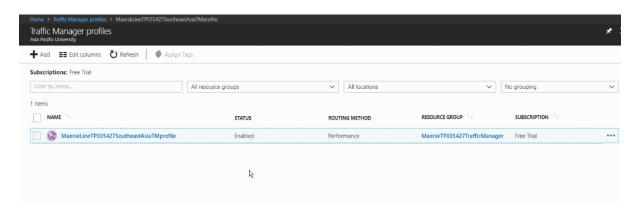
Microsoft Azure Traffic Manager enables you to control the conveyance of client movement for benefit endpoints in various datacenters. Administration endpoints upheld by Traffic Manager incorporate Azure VMs, Web Apps, and cloud administrations.



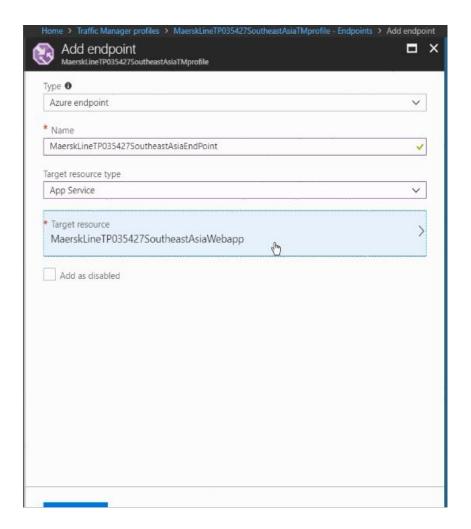
The user must fill in all the blank provided then proceed.



When the greater part of the data has been filled in the client will then need to tap the "Make" and Traffic Manager is then made.



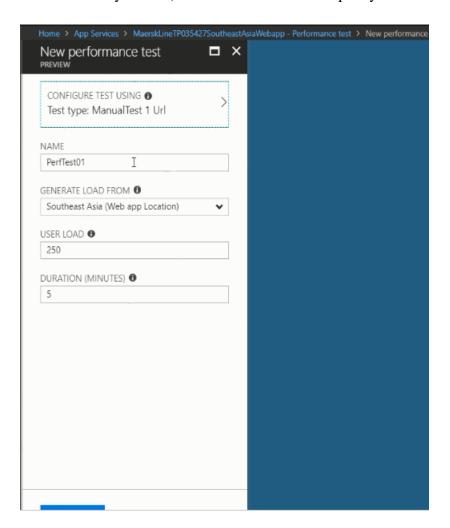
Once the client has done it accurately this will show up in the client Traffic Manager Profile.



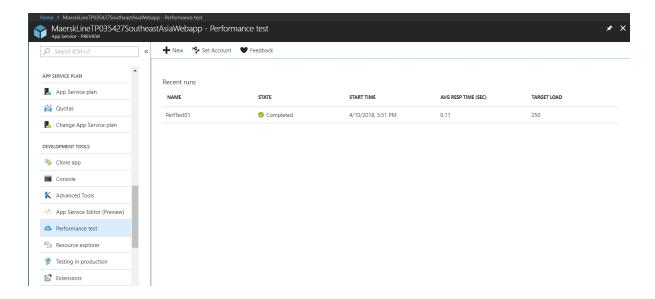
The client will then need to go into the Traffic Manager Profile and the client will then make and End Point for the Traffic Manager. Once that is done the client will have the capacity to distribute the site.

#### 4.3 Performance Testing

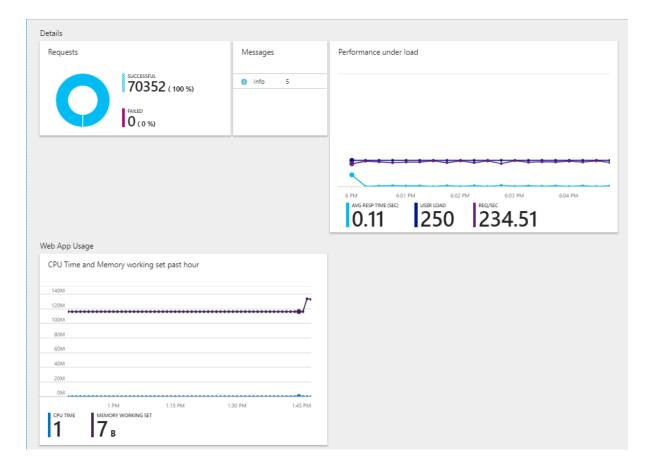
Performance testing is the way toward deciding the speed or viability of a PC, arrange, programming project or gadget. This procedure can include quantitative tests done in a lab, for example, estimating the reaction time or the quantity of MIPS (a large number of directions every second) at which a framework capacity.



In this segment, the client should lead an execution test to test the general execution of the web application. At in the first place, the client should give a name to the execution test. Also, the client will be required select the area that the heap produced from and the span of the framework itself should stack the page in the meantime. Besides, this test will then be led in three diverse client loads, which includes on a normal of 250 clients, 500 clients, and 100 clients.



The figure above demonstrates the rundown of the finished execution test on the web application itself. Additionally, the client will have the capacity to see the test by tapping on it.



As the figure above shows, the finished test with 250 client loads. It plainly delineates that the quantity of effective demand are immaculate and it just bombed once on the general execution.

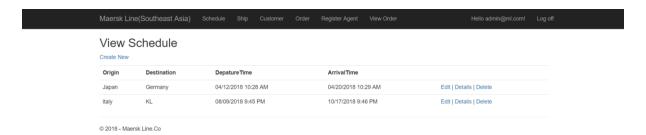
#### 4.4 Web Application Screenshot



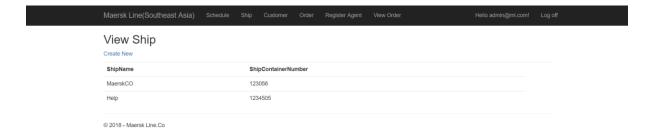
The figure above demonstrates the landing page of Maersk Line Company. This landing page is appeared after the administrator has login effectively to the site. In addition, it likewise gives a few highlights to the administrator to play out the activities, for example, make reservation, compartment, oversee ship, and shipyards.



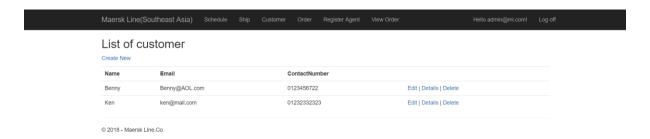
The figure above demonstrates the login page of Maersk Line Company. This login page is appeared before the administrator has login effectively to the site.



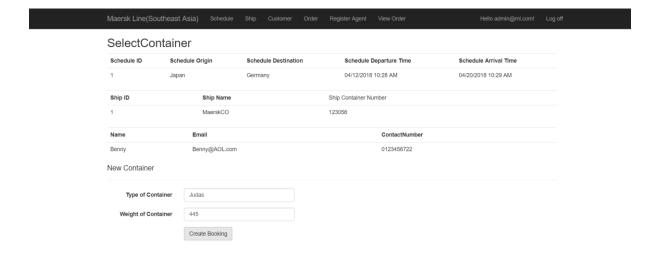
After client has tapped on the 'Calendar' tab, which is appeared at the highest point of the web application, the framework will show the Schedule page. Along these lines, this page enables client to make another Schedule. It will likewise show the rundown of starting point, goal, Departure time and Arrival time. Other than that, the client is likewise ready to see, alter and erase the records.



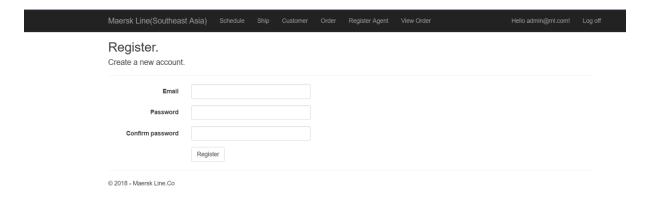
At the point when client taps the "Ship" tab which is situated at the highest point of the web application, the client will be diverted to this page. Whereby, this page demonstrates the records of enlisted ships. In addition, the client is permitted to make another ship which is situated beneath the Ship title. Other than that, the client is additionally ready to see and erase the records too.



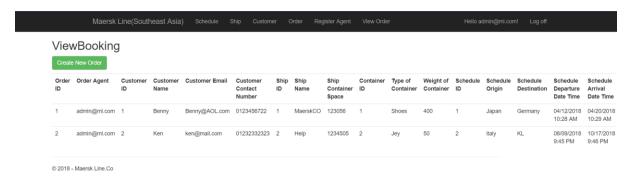
After that the client should make a client too which will incorporate their name, email, and furthermore their contact number too. This will be required for the holder as it will require the client's data.



Once that is done the client should go to the Order tab whereby this tab will enable the client to choose the Container which is through the Schedule, Ship and furthermore the Customer. When the majority of that has been chosen the client must fill in the kind of holder and furthermore the heaviness of compartment.



Additionally, if there the administrator will likewise have the power or benefit to add new specialists to the framework also if that is required.



At the point when client taps the "View Order" tab which is situated at the highest point of the web application, the framework will open this page. This page will demonstrate the greater part of the records that the administrator had made for the booking for the shipments. Consequently, the administrator permits reserving a spot which is situated underneath the Reservation title. Other than that, the administrator is additionally ready to see and erase the records.

# 5.0 Unit Testing

Test	Test	Test Data	Expected	Actual	Status
ID	Description		Result	Result	
<b>T1</b>	Login	Username: admin@ml.com	Login	Login	Pass
		Password: Admin_123	Successful	Successful	
<b>T2</b>	Insert	1P778, JustShip, Japan, Tokyo, 100, 18-Jul-	Insert	Insert	Pass
	Reservation	2018, 19-Jul-2018	Successful	Successful	
<b>T3</b>	Insert Ship	JustShip, Hope400, 1234	Insert	Insert	Pass
			Successful	Successful	
<b>T4</b>	Insert	1P778, Not more than 500KG, 500	Insert	Insert	Pass
	Container		Successful	Successful	
<b>T5</b>	Update	1, Titanic, KUL-SG BESI, LGK-PAHANG,	Update	Update	Pass
	Reservation	100, 18-Jul-2017, 20-Jul-2017	Successful	Successful	
<b>T6</b>	Update Ship	Titanic, MH100, 1100	Update	Update	Pass
			Successful	Successful	
<b>T7</b>	Update	1, Not more than 1000KG, 1000	Update	Update	Pass
	Container		Successful	Successful	
Т8	Delete	-	Delete	Delete	Pass
	Booking		Successful	Successful	
Т9	Delete Ship	-	Delete	Delete	Pass
			Successful	Successful	
T10	Delete	-	Delete	Delete	Pass
	Container		Successful	Successful	

#### 6.0 Conclusion

Taking everything into account, Maerks Line web application enables the client to reserve spot for shipment, and furthermore ready to make holder, shipyards, and oversee ships. The web application is produced in view of the prerequisite that expressed in the task question paper. Furthermore, this web application has accomplished to objective of giving a decent stage to the client to deal with the shipment.

Microsoft Azure is a decent stage for the web application to send on it. This stage gives an awesome answer for the Maerks Line Company as it addresses the issues of Maerks Line web application. Plus, it is simple and helpful for the product designer to send their web application with couple of straightforward advances. Dissimilar to the others stage, it just takes couple of minutes to convey the web application to the cloud. Not just that, Microsoft Azure additionally gives SQL Database that assists a ton of programming designer with solving the issue of putting away the information. Keeping in mind the end goal to ensure that the site can be come to much of the time, Azure Traffic Manager is actualized to control the solicitations from web customers. Execution movement steering is chosen by sending endpoints in couple of areas over the globe. This is to enhance the responsiveness of the web application and send the demand in view of the area that is nearest to the customer.

The product designer had picked up heaps of information around there, which is create and send the web application on Microsoft Azure App Service, and movement control. In this task, I had taken in the web application organization, movement control, and other valuable capacities. I trust that I could apply it in my future employments and help to enhance my profession as it gives numerous valuable highlights.

# 7.0 Appendix

Github

https://github.com/oubamanhs/DDAC\_TP035427

South East Asia

 $\underline{https://maersklinetp035427southeastasiawebapp.azurewebsites.net/}$ 

West US

https://maersklinetp035427westuswebapp.azurewebsites.net/