Berthing Scheduling Application

Group #4

- Osborn Collins
- Mark A. Pascual
- Driane Perez
- Daniel Garcia
- Justin Chuc
- Kevin Godoy


PORT OF OAKLAND
CMA CGM LYRA
LONDON
HANJIN
HANJIN
HANJIN MU
PANAMA

About our application

- In the design of this application, we incorporated all the stakeholders at a Berthing facilities. Upon a user logging into our secure application, they will be forwarded to their **appropriate dashboard** where users can perform a range of tasks, **see schedules**, ship's **arrival and departure date** and post notification of delays among other things.
- This application is designed to be easy to use and improve the overall productivity of Berthing facilities.

Who is the application for?

- Port facilities
- Stevedores
- Ship pilots
- Shipping agents
- Operations manager

Test Case:	**TC-1**
Use case being used:	**UC - 20 - reportGenerator**
Criteria for success/fail:	It is successful if it successfully compiled a report based on the filters that the user chose.
Input Data:	Alphanumeric
Test Procedure:	**Expected Result:**
Step 1: Establish connection to the database.	Success
Step 2: Call function “reportGenerator(userFilter)” with valid filter data.	Success
Step 3: Call function “reportGenerator(userFilter)” with invalid filter data.	Fail
Step 4: Call function “reportGenerator(userFilter)” with an empty filter data.	Fail
Step 5: Call function “reportGenerator(userFilter)” with valid filter data of only 1 filter.	Success
Step 5: Call function “reportGenerator(userFilter)” with valid filter data of maximum filter data.	Success

Test Case:	**TC - 2**
Use case being used:	**UC - 4 - addVessel**
Criteria for success/fail:	For this test to be successful the system should add a voyage to the dynamic table and add the attribute and information of the voyage.
Input Data:	Alphanumeric
Test Procedure:	**Expected Result:**
Step 1: Establish connection to the database.	Success
Step 2: Call function “addVoyage(voyage)” with an valid data	Success
Step 3: Call function “addVoyage(voyage)” with an invalid data.	Fail
Step 4: Call function “addVoyage(voyage)” with empty data.	Fail
Step 5: Call function “GetVoyage(getVoyage)” with valid voyage attribute info.	Success
Step 6: Call function “GetVoyage(getVoyage)” with an invalid voyage attribute info.	fail

Test Case:	**TC - 3**
Use case being used:	**UC - 5 - updateVoyage & UC - 10 - notificationsSender**
Criteria for success/fail:	A successful update the voyage attribute and info is classified as success.
Test Procedure:	**Expected Result:**
Step 1: Establish connection to the database.	Success
Step 2: Call function “updateVoyage(voyage_number,update)” with an valid data	Success
Step 3: Call function “updateVoyage(voyage_number,update)” with an invalid data	fail
Step 4: Call function “updateVoyage(voyage_number,update)” with empty data	Fail
Step 5: Call function “updateVoyage(voyage_number,update)” with an empty update	Success
Step 6: Call function “notificationsSender(message,voyage_number)” with valid date	Success
Step 7: Call function “notificationsSender(message,voyage_number)” with invalid date	Fail

Test Case:	**TC - 4**
Use case being used:	**UC - 19 - trackDelays**
Criteria for success/fail:	This will be an success when it tracks the delay for an vessel.
Input Data:	Alphanumeric, time
Test Procedure:	**Expected Result:**
Step 1: Establish connection to the database.	Success
Step 2: Call function “trackDelay(voyage_number,id_delay)” with an valid data	success
Step 3: Call function “trackDelay(voyage_number,id_delay)” with missing voyage_number	Fail
Step 4: Call function “trackDelay(voyage_number,id_delay)” with an invalid data	Fail
Step 5: Call function “trackDelay(voyage_number,id_delay)” with an empty id_delay	Fail
Step 6: Call function “trackDelay(voyage_number,id_delay)” with an delay of 0	success

Management Plan

	Task to complete	**Personnel in charge**	**Start Date**	**Finish Date**
1	Revision of Reports #1 and #2	All Group Members	10th/04/2022	13th/04/2022
2	Make corrections of Reports #1 and #2	All Group Members	14th/04/2022	14th/04/2022
3	Combing Report #1 and #2 (Report #3)	All Group Members	15th/04/2022	15th/04/2022
4	Finalizing Report #3	All Group Members	16th/04/2022	30th/04/2022

Management Plan

	Task to complete	**Personnel in charge**	**Start Date**	**Finish Date**
5	Revision of Demo #1	All Group Members	25th/04/2022	30th/04/2022
6	Finalizing Demo #2	Daniel Garcia Osborn Collins Mark Pascual Kevin Godoy Driane Peres	1st/05/2022	13th/05/2022
7	Brochure Preparation PowerPoint Presentation	Mark Pascual Justin Chuc	9tt/05/2022	13th/05/2022
8	Revision of all documents and Demo #2 •Brochure •PowerPoint •Report #3 •Demo #2	All Group Members	14th/05/2022	15th/05/2022

Demo presentation

- Describe the functions
- Demonstrate how a user uses the application
- Highlight
  - Interface design
  - Data processing at the backend
  - Other important features.

The End!