

Crit B: Design

Inputs for customer info page

Input (* = required in order to go to next page)	Input type	Normal example	Border	Extreme	Wrong type
First Name*	text	John Emily	""	Number of characters	1234
Middle name	text	Alan Marie	""	Number of characters	1234
Last Name*	text	Smith Doe	""	Number of characters	1234
Nationality*	select (drop-down)	Afghanistan	""	N/a	N/a
email*	email	example@gmail.com	""	a@a Number of characters	No '@' symbol
Phone number*	tel	075882345	0	0/large number	abc
Country code*	number	66	min=1	1/large number	abc
Arrival date*	date (mm/dd/yyyy)	01/02/2022	00/00/0000 12/12/9999	00/00/0000 12/12/9999	abc
Departure date*	date (mm/dd/yyyy)	01/03/2022	00/00/0000 12/12/9999	00/00/0000 12/12/9999	abc
Number of Golfers*	number	2	min=0 max=2000	1/2000	abc
Number of non-Golfers*	number	10	min=0 max=2000	1/2000	abc
Hotel standard*	select (drop-down)	any	""	N/a	N/a

Inputs for destination page

Input	Input type	Normal example	Border	Extreme	Wrong type
Destination(s)*	Checkboxes for each city	"Bangkok" and "Hua Hin" checked	require at least one box selected	All selected	N/a

Inputs for hotel and golf course selection page: for each day, a new container is made with each of these inputs

Input	Input type	Normal example	Border	Extreme	Wrong type
Golfcourse	select (drop-down)	Hua Hin: Black Mountain Golf Club	No golf day/a golf course selected	N/a	N/a
Tee-off time	time	11:00 AM	12:00 AM/11:59 PM	N/a	N/a
Caddie	checkbox	checked	checked/not checked	N/a	N/a
Cart	checkbox	checked	checked/not checked	N/a	N/a
Hotel*	select (drop-down)	G Hua Hin	""	N/a	N/a
Hotel Breakfast	checkbox	checked	checked/not checked	N/a	N/a
Transportation	checkbox	checked	checked/not checked	N/a	N/a

Flow chart for web program

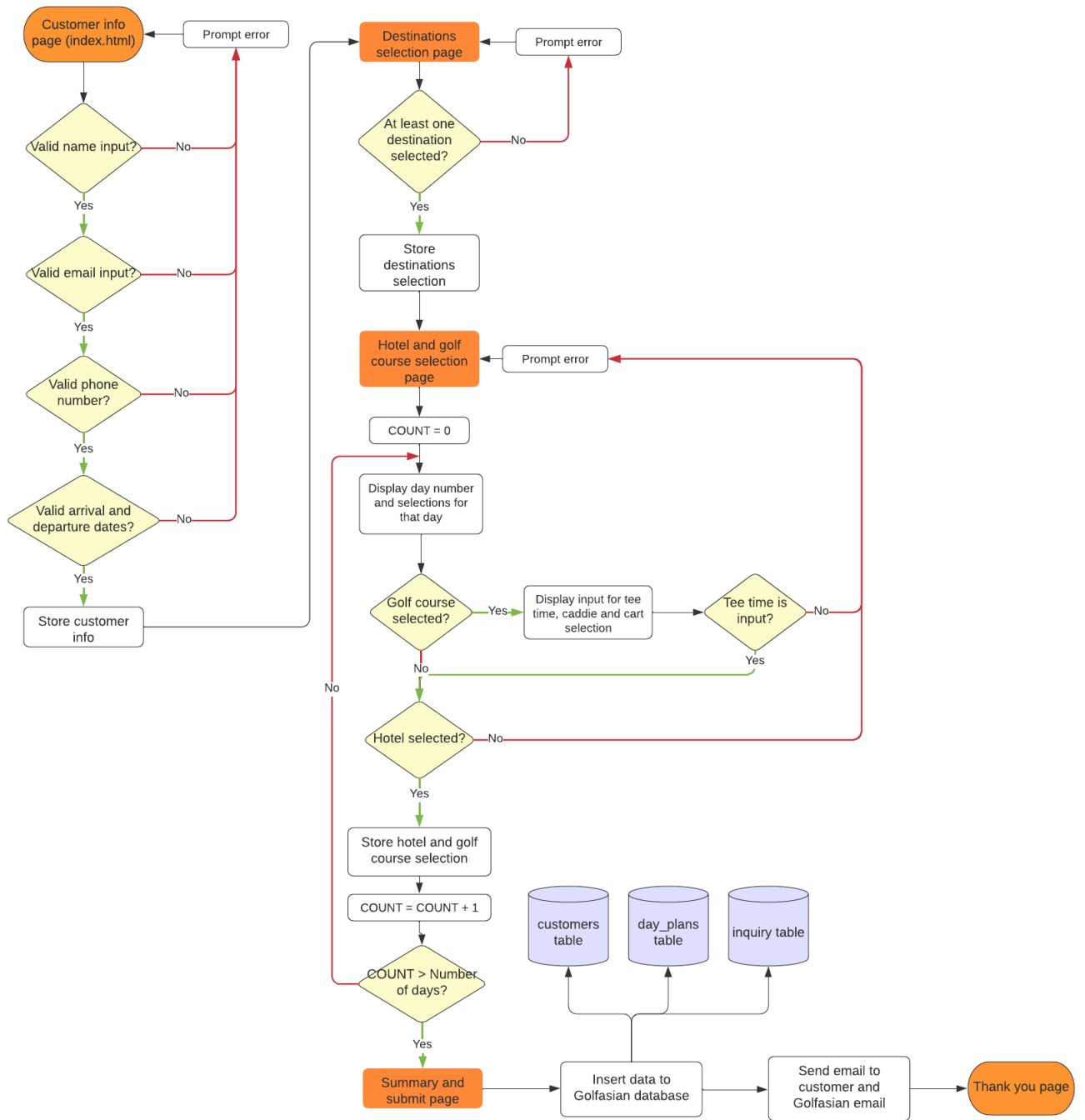


Table structure for MySQL database

PK = Primary key

FK = Foreign key

Customer:

	Name	Type	Default	Extra
PK	CustomerID	int(11)	none	AUTO_INCREMENT
FK	InquiryID	int(11)	0	
	FirstName	varchar(100)	none	
	MiddleName	varchar(100)	none	
	LastName	varchar(100)	none	
	Email	varchar(255)	none	
	PhoneNumber	varchar(16)	none	
	Nationality	varchar(45)	none	
	Location	varchar(100)	none	

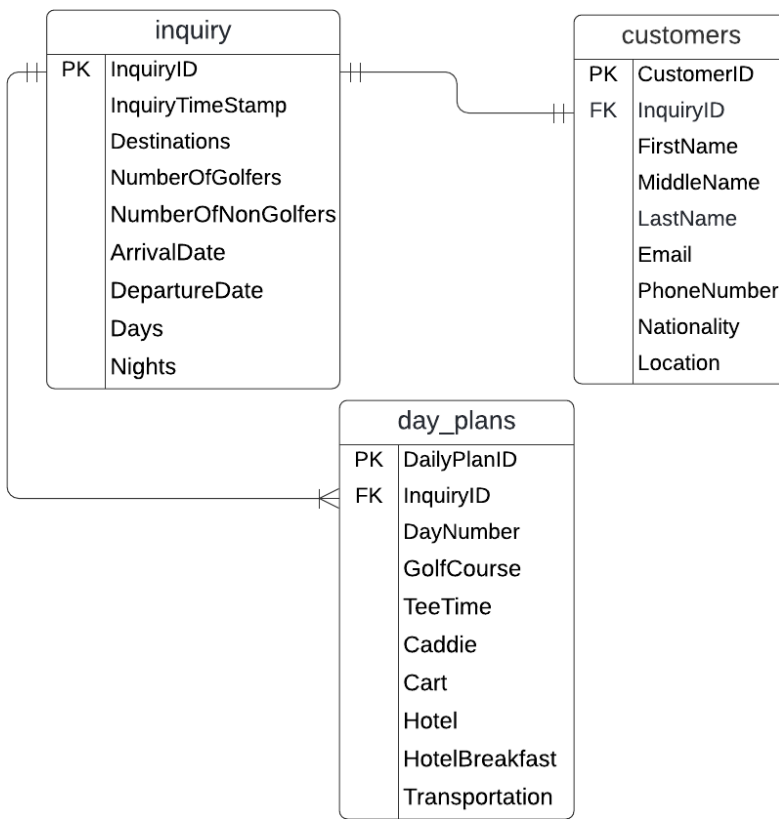
Inquiry:

	Name	Type	Default	Extra
PK	InquiryId	int(11)	none	AUTO_INCREMENT
	InquiryTimeStamp	datetime	none	DEFAULT CURRENT_TIMESTAMP
	Destinations	varchar(255)	none	
	NumberOfGolfers	int(4)	0	
	NumberOfNonGolfers	int(4)	0	
	ArrivalDate	date	none	
	DepartureDate	date	none	
	Days	int(4)	0	
	Nights	int(4)	0	

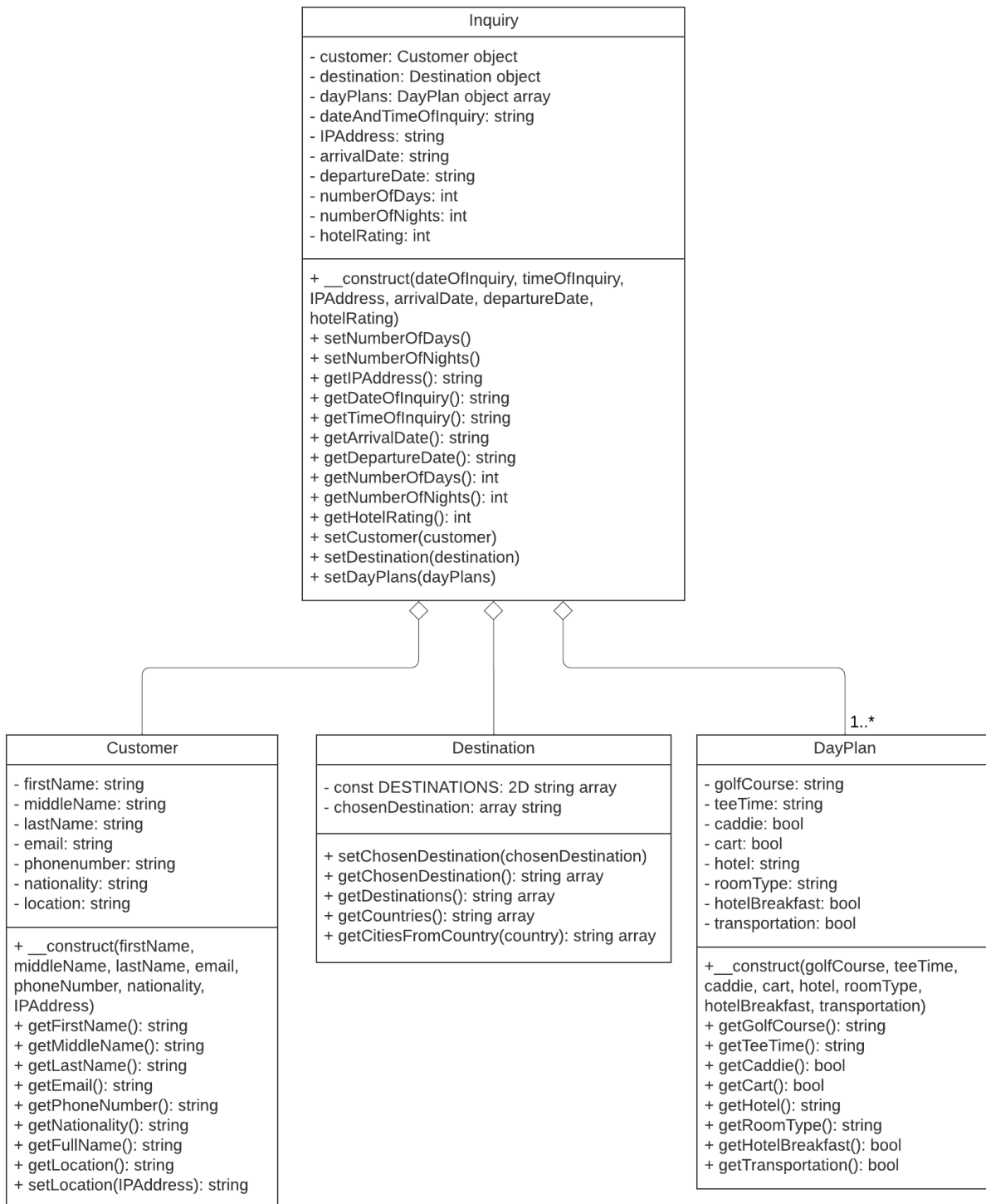
DailyPlan:

	Name	Type	Default	Extra
PK	DailyPlanID	int(11)	none	AUTO_INCREMENT
FK	InquiryId	int(11)	none	
	DayNumber	int(4)	none	
	GolfCourse	varchar(150)	none	
	TeeTime	time	none	
	Caddie	tinyint(1)	0	
	Cart	tinyint(1)	0	
	Hotel	varchar(150)	none	
	HotelBreakfast	tinyint(1)	0	
	Transportation	tinyint(1)	0	

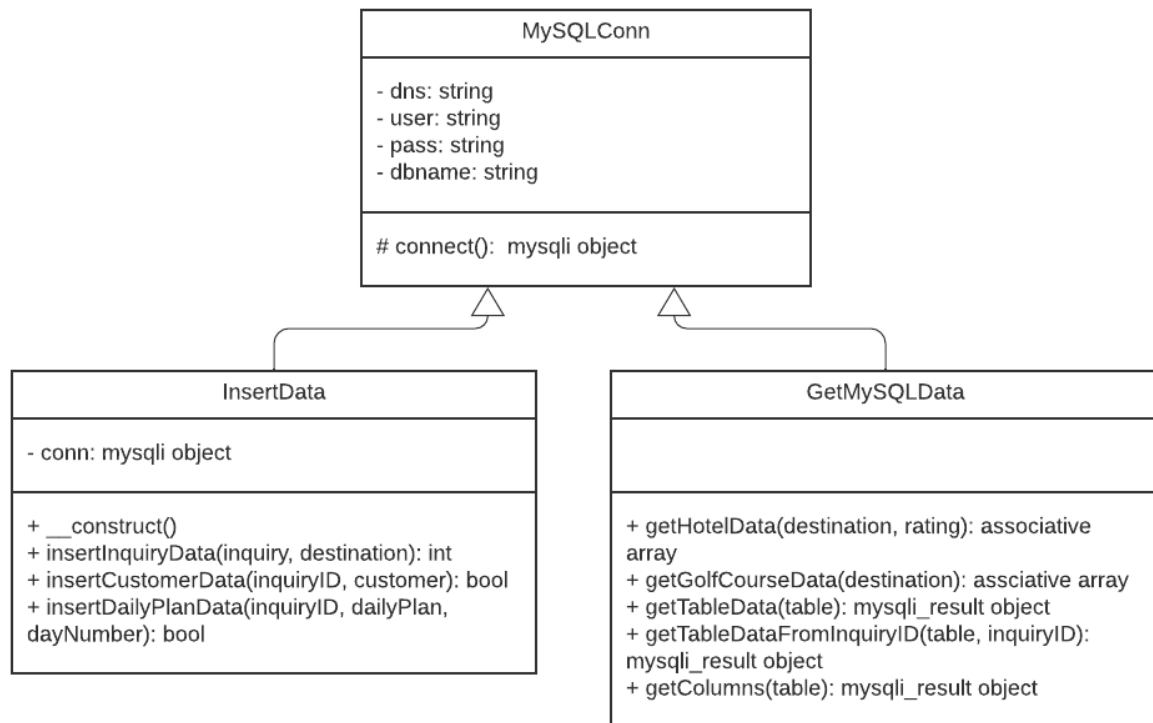
ER diagram for MySQL database:



UML Diagram for “template” classes:



UML Diagram for database OOP logic:



Testing plan:

Action to test	Method of testing	Expected result
1. Creation of any kind of database, in this case, MySQL, that stores all of the information that comes through from the web program.	Create a new MySQL database and check if the database exists	Database exists
2. There will be a screen where users are required to enter their info along with preferences for their trip such as arrival and departure date, destinations, hotel standard, number of golfers, number of non-golfers, any other accommodations. - <i>testing incorrect inputs</i>	Enter incorrect types for each input	When pressing "Next page" the program will display an error and not allow the user to go to the next page
2. There will be a screen where users are required to enter their info along with preferences for their trip such as arrival and departure date, destinations, hotel standard, number of golfers, number of non-golfers, any other accommodations. - <i>testing correct inputs</i>	Enter all of my own info (for testing purposes) for a hypothetical trip in the near future for a period of one week	When pressing "Next page" the program will redirect to the next page and store the information entered
3. On the next page, users should have the ability to select	Select no destinations and press "Next page"	The program will prompt an error and will not allow the user to proceed

multiple destinations from all the available options. - <i>testing incorrect inputs</i>		
3. On the next page, users should have the ability to select multiple destinations from all the available options. - <i>testing correct inputs</i>	Select the destinations Bangkok and Hua Hin press the "Next page"	The program will store the information and redirect the user to the next page
4. The selection of hotels and golf courses for each day, provided by the client, must change based on the previous selection of the destinations.	Based of the selections of the hypothetical trip to Bangkok and Hua Hin, see the page if the selections have changed based on the number of days, hotel rating and destinations chosen.	The pogram will correctly display the number of days with correct selections for each day.
5. Require the user to select the hotel and the golf preferences for each day. - <i>testing incorrect inputs</i>	Do not select hotels or golf preferences and click "submit"	Program will prompt an error and not allow the user to proceed
5. Require the user to select the hotel and the golf preferences for each day. - <i>testing correct inputs</i>	Select a golf course and hotel for each day and click "submit"	Program will allow to user to proceed to the next page.
6. The date and time of the entry of when the information was submitted must also be logged and stored in the database.	After entering all the information, checking the database if the current time is stored correctly to the local time zone	The date and time is logged into the database
7. After the user submits, an email will all the information input will be sent to	Check the email entered into the prgram and the new email address made	Both addresses should receive an email will all of the information entered for the hypothetical trip

<p>the user inputting their information and to an email to be used by Golfasian in a bulleted format.</p>		
<p>8. The information on the database should be able to be downloaded into an excel file.</p>	<p>A separate web page will be made and the user will press the "download excel spreadsheet" button</p>	<p>An excel spreadsheet will be downloaded with all of the customer information that has been entered so far</p>