

ITE 3999 – Final Year Project
Project Proposal
Tourism in IT
Cruise Line Reservation System



A
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(External Degree)
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CODL - Center for Open and Distance Learning

IT – Information Technology

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1. Introduction

Today, one of the biggest social and economic phenomena in the world is tourism, and the internet plays a key role in facilitating connections between the various tourist-related entities and the items they relate to. Tourism is one of the industries that use the Internet the most concurrently. When it comes to online sales, touristic goods like last-minute airline tickets, hotel rooms, and package deals are the most popular, excluding the sale of books. As a result, the Internet functions as the primary reserve mechanism.

"Cruise tourism is an opulent kind of travel that entails an all-inclusive vacation on a cruise ship for at least 48 hours, on a predetermined route, during which the ship makes port calls at various towns or ports." A cruise ship, sometimes known as a cruise liner, is a type of passenger ship used for leisure travel, where the journey itself, the amenities on board, and the various ports of call along the way all contribute to the overall experience. Cruising serves more than just transportation needs, especially on cruises that take guests back to their starting port (also known as a closed-loop cruise), with the ports of call often located in a certain area of a continent.

Based on my research, there are a few web applications that identify as cruise booking for world; however, they are not competent enough to fulfill the integral necessities of a traveler. Here, I identified the needs of the tourist and divided the way of booking the ships accordingly into several parts. Accordingly, according to the destination country, the destination port and the traveling ship, and according to the convenient dates for the traveler, a website will be created to make it easy for them to book these ships.

2. Background & Motivation

Recently, due to the epidemic situation in the world and the global economic crisis, this great industry has been severely damaged. At that time, there was plenty of room for tourists to enjoy this kind of entertainment on such a ship. At this time when the situation in the world is becoming favorable again, this design was intended to make it easier for them to reserve these ships very easily and very easily. And for this purpose, there are currently private websites for ships that are made by existing private organizations that are only related to the relevant organization. The problem given here is that they have the opportunity to get the tourists from the ship to their satisfaction, so this website will undoubtedly be a good help for them to do the work in a very convenient and convenient way.

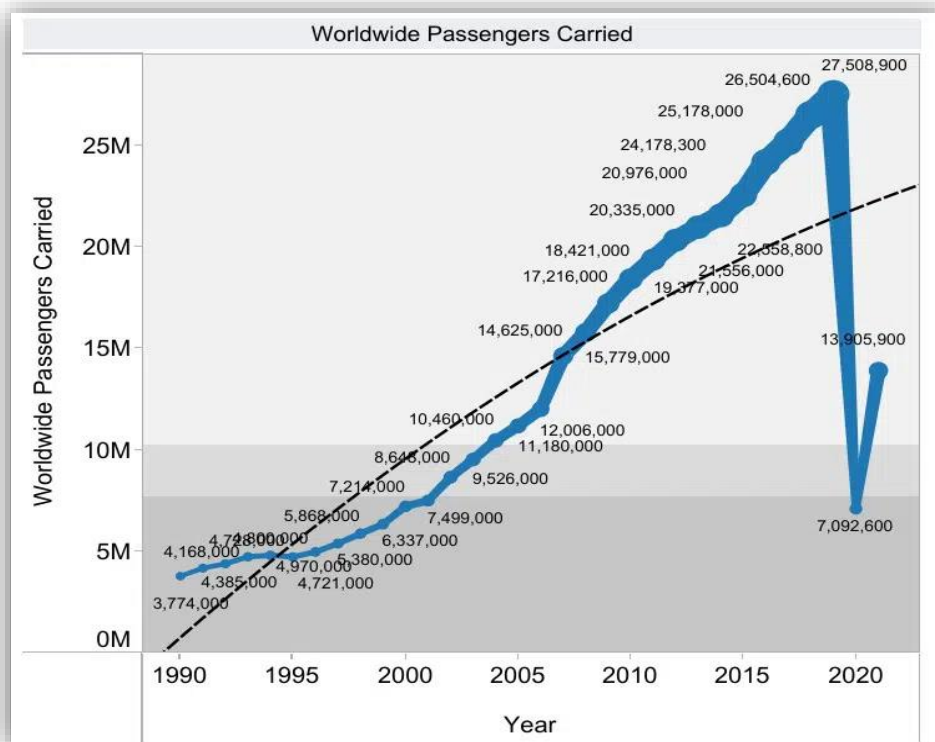


Figure 1: Growth of the Ocean Cruise Line Industry

[1] Worldwide, the ocean tourism industry has achieved a passenger compound annual growth rate of 6.6% from 1990 - 2019.

However, the ocean cruise industry is currently estimated to be 11 months from COVID-19. As vessels became more modern and environmentally friendly, it accelerated the retirement of many ships. A total of 31 ships will exit ocean cruise operations worldwide between 2019 and 2021, reducing passenger

capacity by 49,105. These numbers are offset to some extent by 8 new ships with 34,312 passenger capacity to be added in 2021 (see tables below).

This equates to a worldwide ocean cruise passenger capacity of 581,200 from 323 ships carrying 13.9 million passengers at the end of 2021 (96.2% increase over 2020 and -49.4% decrease from 2019).

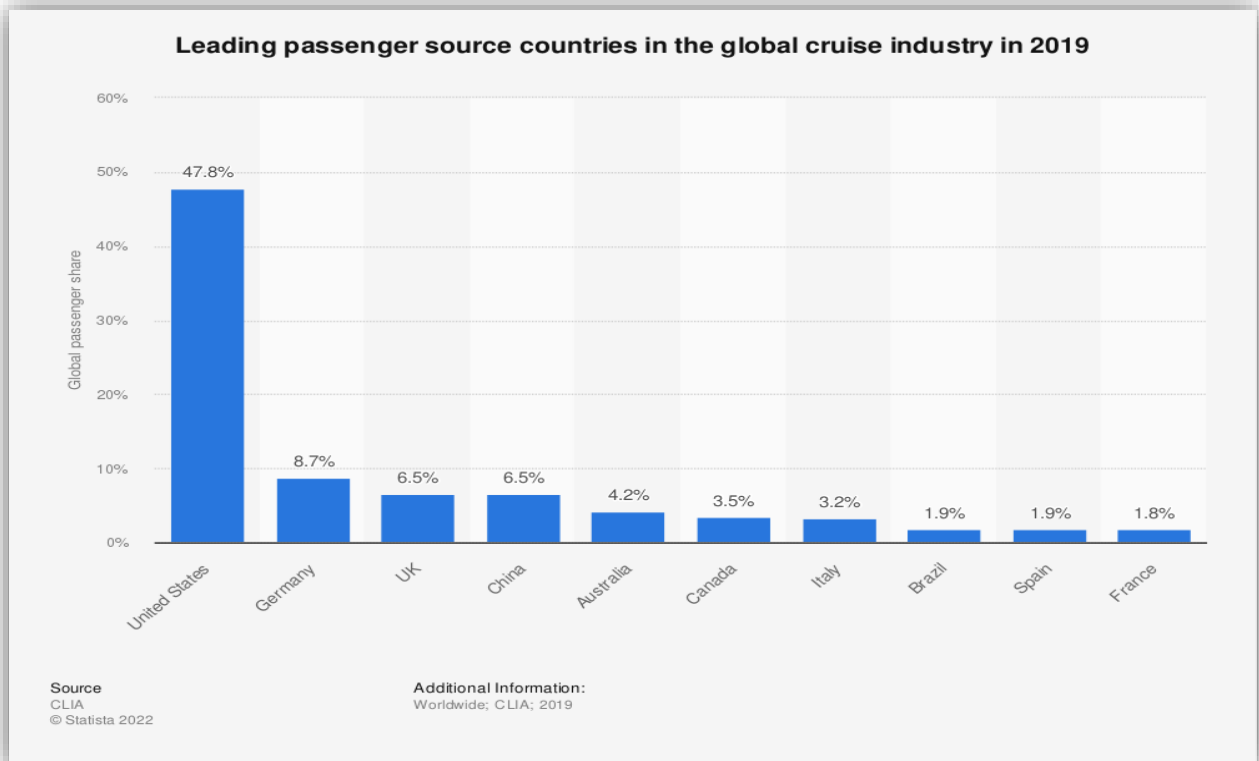


Figure 2: Leading passenger source countries in the global cruise industry in 2019

The United States was the leading passenger source country in the global cruise industry in 2019. In that year, roughly 48 percent of cruise passengers worldwide were sourced from the U.S. Meanwhile, Germany was the second leading market, as almost nine percent of global cruise travelers were source from this country in 2019.

3. Booking vacations on a luxury cruise will be at the discretion and convenience of the traveler.

Sometimes it seems like there's a lot of choice when it comes to finding your perfect cruise vacation, especially if you're new to the cruise lifestyle, with countless destinations, cruise lines, ships and deals to choose from. To help you out, we've picked out some of the toughest choices you'll have to make when searching for your next travel vacation, and offered some helpful suggestions on how to avoid the pitfalls you're bound to encounter.

4. Aim & Objectives

Aim

There are several reputable cruise lines to select from, each offering distinctive onboard experiences and frequently catering to a certain demographic. Everything depends on the type of cruise experience you want.

When looking for your next cruise vacation, picking a destination is probably one of the most enjoyable challenges you'll face. However, with so many options available to you, it's critical to think carefully about what you want from your trip.

There are many things to decide after selecting your perfect cruise line and location. When choosing a ship and route, there are several factors to take into account, such as on-board amenities, potential savings, and practical departure ports.

With a variety of possible cabins, you'll probably have a ton of options when choosing your on-board lodging. There are up to 40 different suite and stateroom categories on some newer ships, so it's crucial to choose the type of living space you need while at sea.

It's always helpful to get a good deal on your initial fare because doing so will give you more money to spend on the ship and in ports.

Objectives

The current method for this is to summarize the needs of the tourists through the private websites run by the organizations belonging to the respective ship and do not get value for money like the tourists.

Because through this website, including all the facilities provided by all the cruise companies, those facilities can be divided and distinguished through proper arrangements, and the tourist can choose the relevant ship by properly identifying the highest comfort and entertainment facilities that he can get for his money. Therefore, by properly identifying the needs of the tourist and giving them values suitable for the money, it is a matter of formal evaluation and building forward.

5. Proposed Solution

[2] There is perhaps no better way to unwind than taking a great vacation. However, many people find that planning for a vacation can be an additional source of stress. A vacation is supposed to be relaxing, but the preparation for the trip seldom is. Questions such as: where to go, what to do, and how to get there will undoubtedly arise when choosing the specifics for your trip.

There are many options to consider when planning a vacation. Some families and individuals consult a travel agent or other travel service to cut down on some of the pre-trip stress. A cruise vacation offers many benefits to the traveler with a variety of options in one location. This is part of the reason why cruises have become an increasingly popular solution for individuals and families who want the most out of their vacation experience.

In recent years, the number of cruise lines, and cruise options, has expanded which is indicative of an overall trend in the travel world. Themed-cruises such as family cruises, singles' cruises and golf cruises are available for travelers seeking a unique brand of fun and relaxation. There are many reasons why cruises are so popular. The following are the top five reasons why people choose cruises.

An online booking system uses smart technology that eliminates the risks associated with manual input and human error. It simplifies the booking process for you and your customers by automatically updating processes such as, scheduling, managing availability and notification reminders.

This web page divides the travelers according to their basic components which are the luxury cruise they want, the countries they want to travel on the cruise and the ports where the cruise will stop. And here, after they have selected the relevant ship, when reserving their respective room, they can choose the rooms inside, outside, with balcony, as ultra-luxurious VIP rooms in several layers according to their cost. And when they go to choose, the remaining room numbers and the floor related to that room are clearly displayed on this website. From there, the traveler can select and reserve the right room. Also the number of travelers accompanying him and their details before payment of money are given here as well as faces for separate entries.

5.1 Technologies and Languages

Web application development

- HTML
- CSS
- Java Script
- PHP
- Bootstrap
- Laravel

Database

- MySQL

Documentation

- MS Word
- Draw.io

5.2 Hardware and Software Requirements

Hardware Computer

- 64-bit Microsoft Windows 7/8/10/11
- CPU architecture; Intel Pentium 4 or later
- 2 GB minimum, 4 GB recommended
- 1280x1024 or larger
- Broadband Internet connection

Software

- Web Browser
- Xampp
- Adobe Dreamweaver

Reference List

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[1] <https://www.cruisemummy.co.uk/cruise-industry-statistics-facts/> [Online]

[2] https://www.streetdirectory.com/travel_guide/215769/cruises/top_five_reasons_why_cruise_vacations_are_so_popular.html [Online]

[3] <https://www.revfine.com/tourism-industry/> [Online]

[4] <https://blog.windstarcruises.com/why-people-like-cruising/> [Online]

Appendix A: Action Plan



Work Breakdown/ Months				1	2	3	4	5	6	7	8	9	10
		Project Phases		-									
		Planning											
			Design										
			Coding										
			Testing										
		Delivery											

Table 1: Gantt chart