

**A PROJECT REPORT
ON
“TRAVEL RESERVATION SERVICE”**

**Submitted to
UNIVERSITY BORDEAUX 1**

BY

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ABSTRACT

Design pattern is a strong tool in Object Oriented Programming. The purpose of this project is to test the ability of understanding and implementing the design patterns.

In this project, I have implemented 11 design patterns. They are Singleton, Abstract Factory, Builder, Proxy, Composite, Decorator, Observer, Iterator, Visitor, Template

Contents

1	INTRODUCTION	1
2	PROGRAM 'S SPECIFICATION OVERVIEW	2

List of Figures

1 INTRODUCTION

In this project, we immitated a system that work for a travel agency. This system can book two main types of travel for the clients: travels without service and travels with services. Travel without service, means that the reservation is made only for the flight, where as travel with services allow a demand for checking in an hotel an renting a car.

For the purpose of simplify the input process, we prepared some input in advance. Below is the tables that present the flights available between the cities.

Departure	Destination				
	Paris	Bordeaux	Canberra	Tokyo	Delhi
Hanoi	x	x	x	x	x
Hochiminh	x			x	x
Hue	x		x	x	
Haiphong		x	x		
Paris		x	x	x	
Bordeaux	x			x	x
Canberra	x	x		x	x
Tokyo	x		x		x
Delhi	x		x	x	

Between Hanoi, Hochiminh, Hue and Haiphong, there are flights between each other.

2 PROGRAM 'S SPECIFICATION OVERVIEW

Our project 's purpose is to help a travel agency make a booking for clients. There're two kinds of service package supported

- Travel without service: consist of only flight's reservation
- Travel with services: apart from flight's reservation, hotel's reservation and car renting could also be added

There're three kinds of flight's reservation

```
public enum FlightTicketType {  
    VIP, Normal, Pool  
}
```

The *Pool* ticket