

Faculty of Automation and Computer Science

Vacation Booking Application

-Project prepared for the Software Design course-

Student: Borbála Fazakas Laboratory Assistant: Teodora Vezan Group 30432 2021-2022

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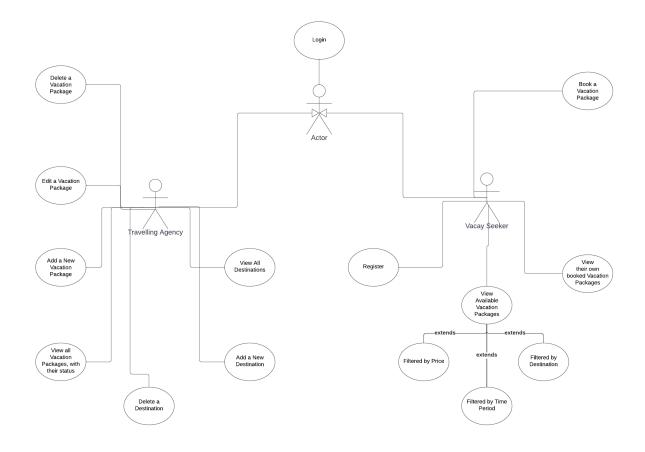
Introduction

Objectives

The primary goal of this project is to implement a desktop application that allows

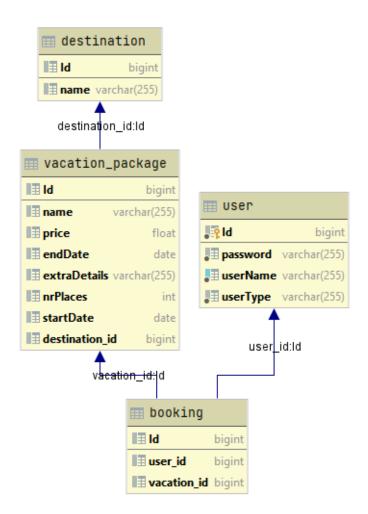
- a travelling agency
 - o to manage the data of the
 - destinations
 - the vacation packages offered by the agency
- the "vacay seekers"
 - o to view the vacation packages corresponding to their needs
 - o book a vacation package.

Use Cases



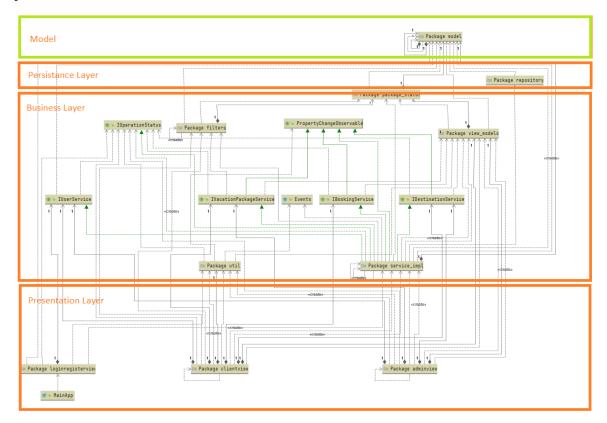
Implementation

Database Design

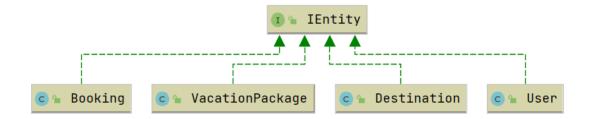


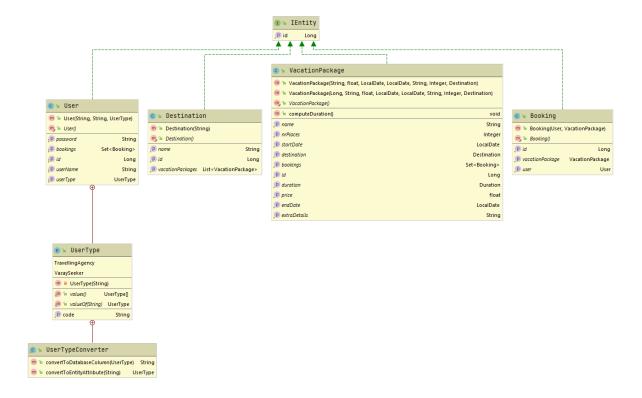
Software Design

Layered Architecture

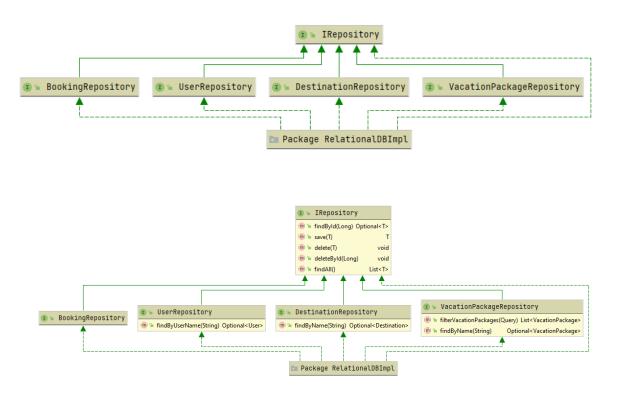


Model

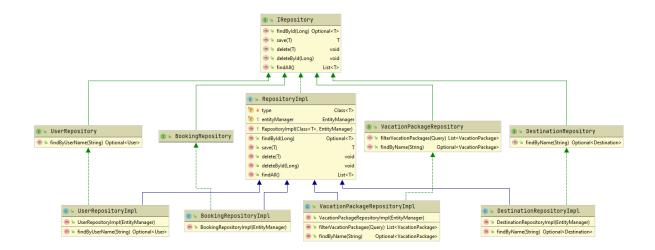




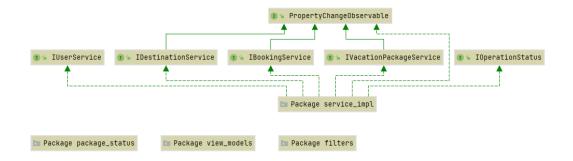
Data Access Layer



With implementations:



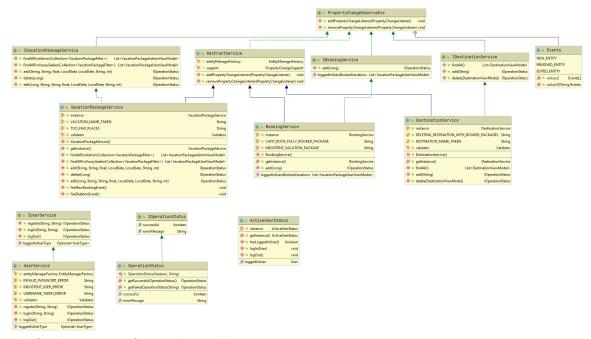
Business Layer



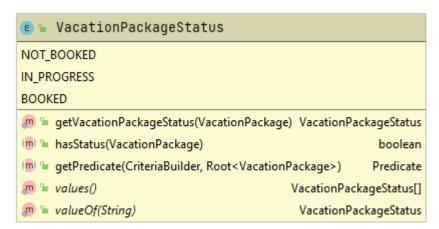
The interface



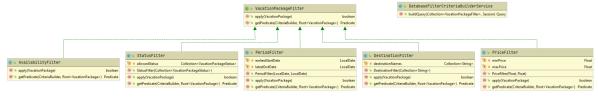
With implementations:



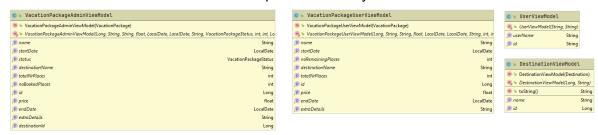
Logic for the status of vacation packages:



Logic for filtering vacation packages:



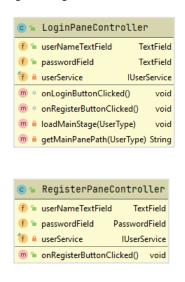
ViewModels for communication with the presentation layer:



Presentation Layer



Login, Registration



Vacay seeker's view

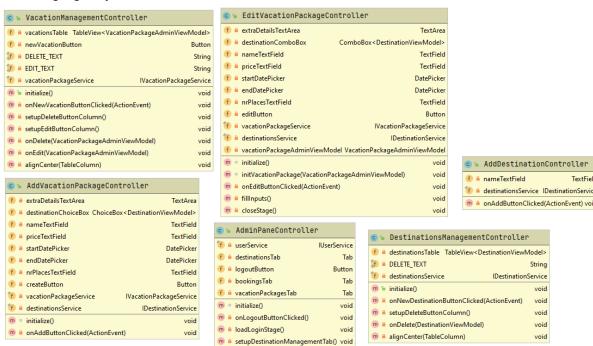
© ኈ VacationBookingControlle	r	
● maxPriceTextField	TextField	
f a minPriceTextField	TextField	
f	DatePicker	
f	DatePicker	
f	oBox <destinationviewmodel></destinationviewmodel>	
f	ationPackageUserViewModel>	
⑤ ■ BOOK_TEXT	String	
⊕ vacationPackageService	IVacationPackageService	
⊕ bookingService	lBookingService	
	IDestinationService	
f ≜ tableController TableController <vacationpackageuserviewmodel></vacationpackageuserviewmodel>		
m = initialize()	void	
m ← onFilterPackagesButtonClicked(ActionEvent) void		
	List <vacationpackagefilter></vacationpackagefilter>	
	void	
	odel) void	
	void	

f ≜ userService		
f a logoutButton	Button	
f a bookingsTab	Tab	
f	Tab	
m o initialize()	void	
	void	
m 🗎 loadLoginStage()	void	
	ntTab() void	
	void	
© № ClientBookingsPaneController		
● bookingsTable TableView <vacationpackageuserviewmod< p=""></vacationpackageuserviewmod<>		
f ≜ bookingService		BookingSen

m = initialize()

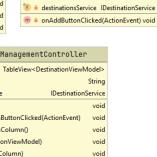
m 🔒 alignCenter(TableColumn)

Travelling Agency's view



m

a setupVacationManagementTab() void



void

void