



CHRIST

(DEEMED TO BE UNIVERSITY)

B A N G A L O R E • I N D I A

Project Title : JanSeva : Virtualizing Pilgrimages

Project Guide : Dr. Kavitha R

Software Requirement Specification

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Chapter 2 : System analysis and requirements

This part of the document describes the system requirements which includes constraints, functional and non-functional requirements.

Requirement Description

Functional requirements :

The functional requirement describes the features and extensions that the project offers to the end-users. The entire project is segmented into various modules, each of which having unique functionality to offer. This acts as a reference to check whether the application is providing all the functionalities that were initially planned and documented.

Priorities	Description
Must	Mandatory requirement, must be implemented first
Should	Recommended feature, can be dropped if there is a good reason
Nice to have	Optional feature, provides differentiation; included if technically feasible
Not Required	If any requirement gets dropped the priority field will have this value

ID	Requirement	Priority
AM	<u>Authentication Module</u>	must
RG	Registration	must
AM.RG.01	The Registration acts as entry point allowing new users to register themselves to the website	must
AM.RG.02	On successful registration, User details should be saved in the database.	must
AM.RG.03	Human-Robot Verification to reduce the unwanted traffic	nice to have
AM.RG.04	Linking other social media for registration like gmail, facebook etc.	nice to have

LG	Login	must
AM.LG.01	The Login acts as entry point allowing already registered users to access the website	must
AM.LG.02	The login should authenticate and verify the user using the login credentials	must
AM.LG.03	If user is not found, should direct to the registration	must
AM.LG.04	Captcha feature	nice to have
BK	<u>Booking Module</u>	must
PS	Package Selection	must
BK.PS.01	Allows users to view and book packages based on the pilgrimages	must
BK.PS.02	Should sent a booking request to the requested pilgrimage	must
PR	Package Recommendation	nice to have
BK.PR.01	The website should recommend packages based on customer interaction with the website.	nice to have
PM	<u>Payment Module</u>	must
PM.01	The payment gateway should be directed as soon as the user wants to confirm the booking	must
PM.02	On Successful payment, the order is confirmed and response is send back to the user interface	must
PM.03	On failure, the response should be reflected back to the user interface	must
TM	<u>Tracking Module</u>	must
AD	Admin	must
TM.AD.01	The admin has access to view all the orders	must
TM.AD.02	Admin can update the order status for a particular order	must
TM.AD.03	Updated orders should be reflected on the user interface	must
US	User	must
TM.US.01	User should be able to view the tracking status	must
TM.US.02	Any update should be reflect back to the user interface	must

TM.US.03	Live stream of divine process integration in tracking module	nice to have
FM	<u>Feedback Module</u>	must
FM.01	The user will get a feedback form on successful delivery of the gifts	must
FM.02	The feed back will be posted on the respective pilgrimage list	must

Non- Functional requirements :

Operating Constraints :

1. Software Requirements:

- Operating System : Windows 10 / Mac OS/ Linux distributions (Ubuntu etc.)
- Environment : Integrated Development Environment (IDE) (VS Code etc)
- Frameworks : ReactJs(Frontend) , NodeJs/expressJs or more (Backend)
- Database : SQL and Workbench

2.Hardware Requirements:

- Processor : Intel's i3 or more/AMD Ryzen 3 or more/Mac M1/intel chips
- Memory : 2GB (minimum) 4GB (recommended)
- Network Connectivity : Dedicated internet connection (Wifi modem/ Broadband)
- Storage : 256 GB HDD/SSD or more

Platform Constraints :

Any latest web browsers with JavaScript enable functionality. Recommended browsers are listed below :

- Google Chrome (above v75)
- Mozilla Firefox (above v 75.0)
- Microsoft Edge (above 75.0)

- Safari (above v12.1.2)
- Opera (above v50)

Analysis Modeling :

Use Case Diagram :

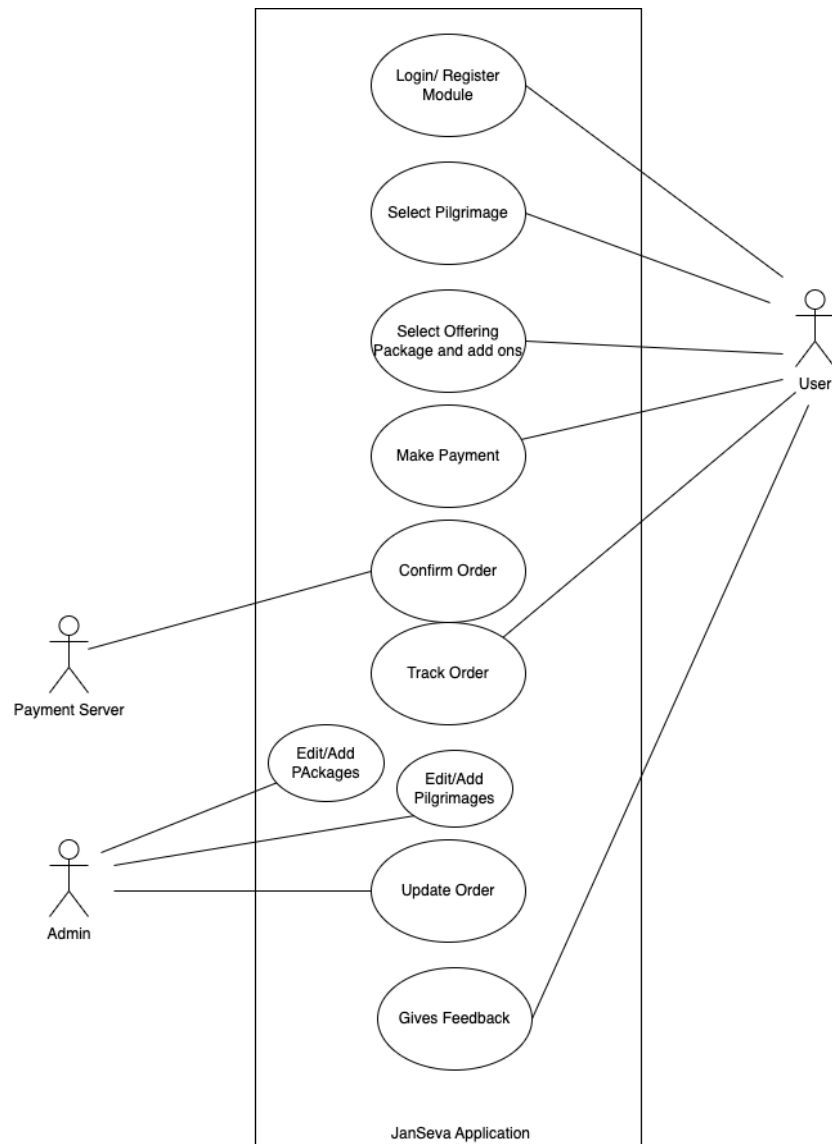


Fig 1: Use Case Diagram for JanSeva

Data Flow Diagram :

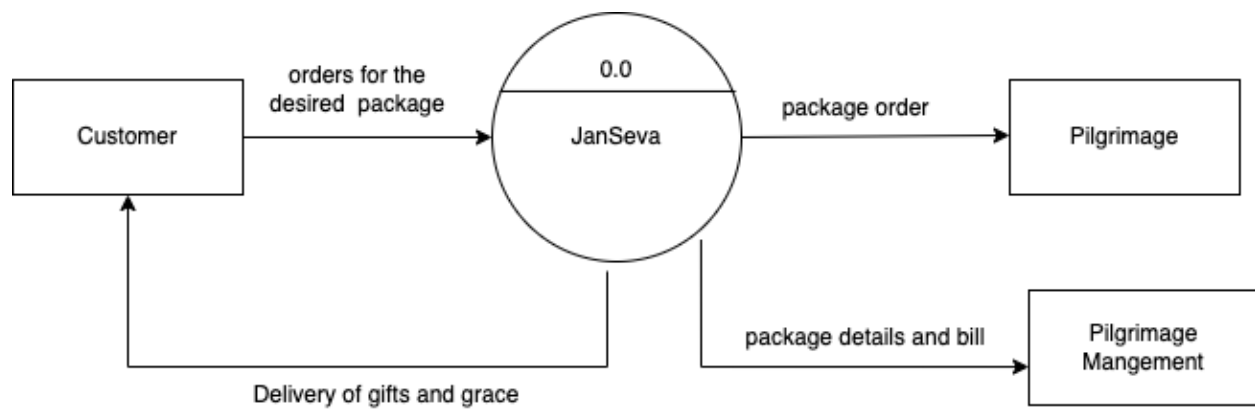


Fig 2 : Level 0 DFD

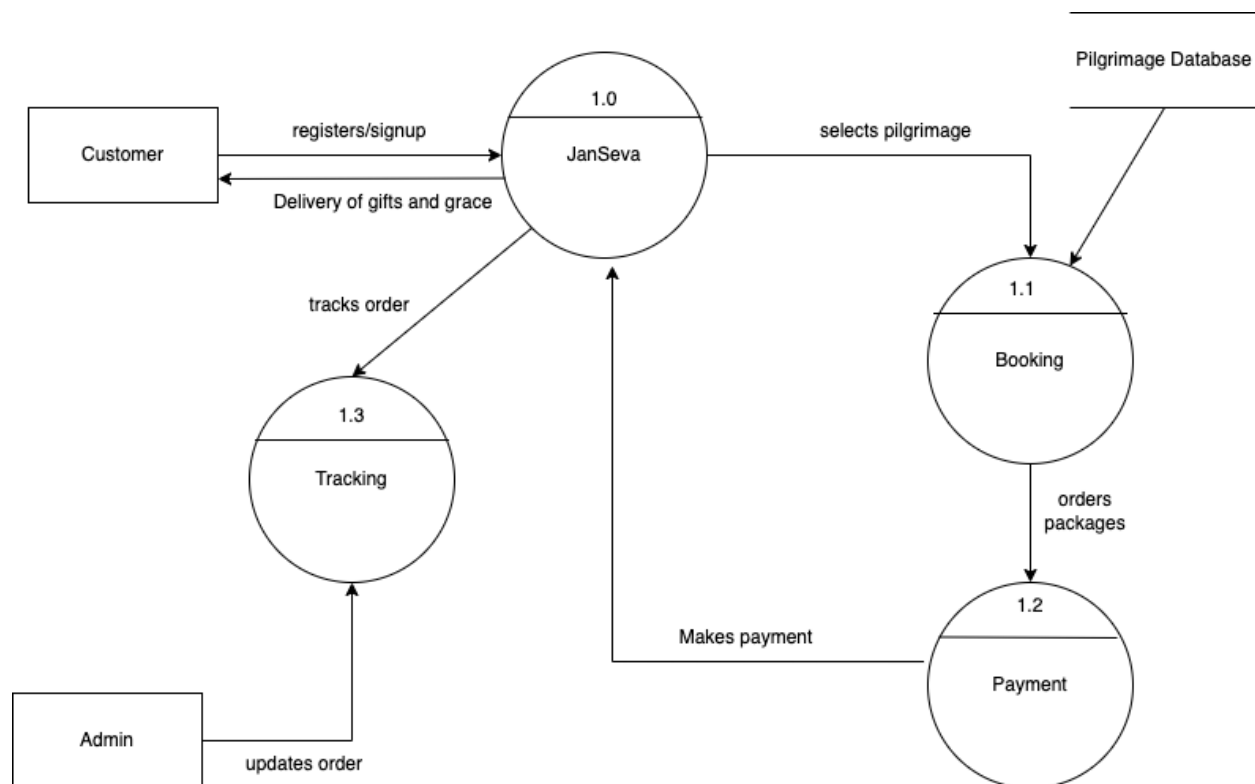


Fig 3 : Level 1 DFD