# Introduction

Design is the abstraction of the solution of a problem in general terms and it is also a visual transfer of a developed application.Successful completion of the design allows to save the time spent in the application part.

## Purpose of the System

The OBTS system’s main purpose is to provide quality,fast and secure service to users.The system has some usefull features that can help user to buy ticket and booking easily.Users can buy tickets with just a few clicks.Users do not have to register to buy tickets,but register operation is necessary to win a gift ticket,delete ticket and booking.Furthermore,system is completely free.

## Design Goals

This system should be a system that encourages users to make fast and reliable transactions.

* **Security**

One of the most important non-functional requirements of this system is system security.

* **Reliability**

The system has to continue online operations without error.This developed system should be highly reliable and all information belonging to user must be retained.

* **End User**

Users entering this system as visitor can not make reservation and win gift tickets that registered users can make.Therefore,visitors only view voyage and buy ticket.

* **Performance**

The system must have a robust structure for storing and managing the data that is entered by users.

* **Flexibility**

System requires internet and available web browser with the device.

* **Implementation**

System can be modified and readable.The number of errors must be minimized

## Definitions, Acronyms, and Abbreviations

**PHP**: Hypertext Preprocessor

**SDD**: System Design Document

**MVC**: Model View Control

**OBTS:**Online Bus ticket system

## References

References to existing system,etc.

# Current Software Architecture

Nowadays,many companies have their own online bus ticket systems.OBTS system has two different login part for admin and registered user.In this system other one user is visitor.Registered user do some operations such as view vacation,buy ticket,delete ticket and win a gift ticket.Visitor only buy a ticket and view vacation on the OBTS system.This system is being made by using PHP.Also,we use PHPMYADMİN to create database.

# Proposed Software Architecture

In OBTS system,our proposed model is Model-View-Controller(MVC).This architectural system supply all the goals and requirements.In our system,entity object and data will be in model and controller can be called bridge.Thats mean,communication and interaction between model and view provides by controller.

## Overview

The OBTS system is user friendly system and all user can use the system easily.OBTS system has many subsystems;

**User Interface:** It provides services for all users(visitor,admin and registered user)for common interfaces like a login form,password change form,personal form and etc.

**Admin Interface:**It provides services to display admins’ forms.For example,addBus form,deleteBus form and addVoyage form.

**Visitor Interface:** It provides services for visitor,such as view vacation subsystem.

**RegisteredUser Interface:** It provides services for registered user,such as booking,buy ticket subsystem.

**AddVoyage subsytem:** It provides services for admin to add voyage.

**DeleteVoyage subsytem:** It provides services for admin to delete voyage.

**ViewVoyage subsytem:** It provides services for visitor and registered user to view voyage.

**AddBus subsytem:** It provides services for admin to add bus.

**DeleteBus subsytem:** It provides services for admin to delete bus.

**Payment subsytem:** It provides services for visitor and registered user to buy ticket.

**Register subsytem:** It provides services for visitor to register the system

**Login subsytem:** It provides services for admin and registered user to login the system.