# TransFlower private Limited Company

## Document:

System Requirement Specifications Document

## Title:

System Requirement Speciation’s for Online Bike Rental System.

## Team:

Admins, Users

## Objective (Purpose):

The online education System for product Web Application is intended to provide complete solution for students, trainers as well as internal users (Management Staff) through a single gateway using internet or let say Web Application. It will enable to students to reach on online learning platform and learn interesting technologies and can enhance their skills and knowledge without visiting the class physically.

## Scope:

This System allows Trainers to maintain training calendar for viewing, scheduling and updation of Courses scheduling their work flow and timing catalogue based on their availability.

Faculty will be able to view the schedule and inform about availability to training manager within specific time.

Student will be able to view the schedule.

## Definitions:

Portal: Personalized Online Web Application

MIS: Management Information System

PDA: Portable Device Application

SRM: Student Relation Management

KPI: Key Performance Index

Dashboard: Personalized information presented using BI techniques such as grid, score card, graph, KPI, etc.

## Functional Requirements:

This System allows Director and training manager to maintain training calendar for viewing, scheduling and updation of Courses.

Faculty will be able to view the schedule and inform about availability to training manager within specific time.

Student will be able to view the schedule.

The System will present same login page for all users. Every user will be provided login IDs based on their allowable accessibility in training calendar/Course training manager.

Login page include two options Administration and Student.

Director:

The System will provide all the access to Director of the institute.

The trainers can be viewed through the dashboard,

All teaching/non-teaching staff is accessible to the director

He can pass on the request in priority to schedule his address/lectures in between the schedule

He can view whole schedule through calendar tab and add responsibilities to any staff if req

Training manager:

Course wise Availability of trainers can be viewed through the dashboard.

He/she can approve or reject any rescheduling/leave requests sent by the trainer.

And can assign the location/room.

He/she can send custom/automated message to student or faculty whenever required.

He/she can view whole schedule through calendar tab and add responsibilities to any staff if required

Trainer:

He/she can view whole schedule through calendar tab

He/she can request for leave or rescheduling of the lectures or inform unavailability for certain period.

He/she can view list of students he is addressing.

Student:

He/she can only view whole schedule through as per course as well as trainers calendar tab.

## Non-functional Requirement:

### Security

Only Authorized users are allowed to access the training schedule.

Each user will be to allowed access to the system through authentication process.

System will provide access to the content on web application, operations on the web application. (Permissions based on Role)

Using SSL in all transactions which will be performed. It would protect confidential information shared by system to

System access will automatically be taken off from all the trainers and students after the course is completed.

System will block operations for inactive stakeholder and would redirect for authentication.

System will internally maintain secure communication channel between Servers (Web Servers, App Servers, database Server)

Sensitive data will be always encrypted across communication.

User proper firewall to protect servers from outside phishing, vulnerable attacks.

### Reliability

The system will backup business data on regular basis and recover in short time duration to keep system operational

Continuous updates are maintained, continuous Administration is done to keep system operational.

During peak hours system will maintain same user experience by managing load balancing.

### Availability

uptime: 24\* 7 available

99.999%

### Maintainability:

A Commercial database software will be used to maintain System data Persistence.

IT operations team will easily monitor and configure System using administrative tools provided by Servers.

Separate environment will be maintained for system for isolation in production, testing, and development.

### Portability:

System will provide portable User Interface (HTML, CSS, JS) through users will be able to access Online Training Platform.

System can be deployed to single server, multi-server, to any OS, Cloud (Azure or AWS or GCP)

### Accessibility:

Only registered users will be able to access the portal after authentication.

Training manager can reject or approve requests based on role provided.

BOD team will be able to view daily, weekly, monthly, annual demand growth through customized dashboard.

Trainers will be able to see their student enhancement graph and could know their understanding levels time to time.

### Durability:

System will retain customer shopping cart for 15 minutes even though customer loose internet connection and join again.

System will maintain Wishlist for customer. customer will be able to add products from Wishlist and add to shopping cart whenever needed.

System will implement backup and recovery for retaining stake holders’ data, business operation data and business data over time.

### Efficiency:

on Festival season, maximum number of users will place order, view products with same response time.

System will be able to manage all transactions with isolation.

### Modularity:

System will design and developed using reusable, independent or dependent business scenarios in the form of modules.

These modules will be loosely coupled and highly cohesive.

System will contain CRM, Inventory, shopping cart, order processing, payment processing, Delivery module, membership and Roles management

modules.

### Scalability:

System will be able to provide consistent user experience to stake holder as well as visitors irrespective of load.

### Safety:

Online Training Portal will be secure from malicious attack, fishing.

Online training Portal functionalities are protected from outside with proper firewall configuration.

Online Training Portal will be always kept updated with latest anti virus software.

Business data will be backed up periodically to ensure safety of data using incremental back up strategy.

Role based security will be applied for Application data and operations accessibility.