

 <b>Project Name:</b>	Resource Blocker
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## Introduction

XYZ Corp has various resources that are used by their employees. These managed resources include Conference Rooms, Project Cubicles, Flex Cubicles, Laptops, Projectors etc.

XYZ Corp plans to develop "Resource Blocker" - a standalone/Web application [Core Java Batches - Swing Application; J2EE Batches - Web Application] where users can manage the resources, and facilitate reservation of these managed resources using a web based tool.

### Scope and Overview:

The scope of the Resource Blocker(RB) application will be to provide the functionality as described below. The system will be developed on a Windows operating system using Java/J2EE

## Functional Requirements

The users of the 'Resource Blocker' are:

1. Administrator – Add/Edit/Delete/View Resources.
2. Employee–View/Request for resources.

### Authentication & Authorization

All users must be able to perform login and change password. Requirement ID	Description	Priority
AA-001	All users (Administrator & Citizen) logging into the RB application should be authenticated using a unique login-id and password (operations to be supported based on type of user)	P1
AA-002	All users should be able to change their password	P2

### Exit handlers

All users must be able to successfully exit from the application. Requirement ID	Description	Priority
EX-001	The application should handle logout (close all open database connections, invalidate sessions, etc)	P1

### Administrator

Administrator must be able to perform the below mentioned functionalities. Requirement ID	Description	Priority
AD-001	The administrator should be able to add lookups	P1
AD-002	The administrator should be able to modify lookups	P1
AD-003	The administrator should be able to add users, groups and privileges	P1
AD-004	The administrator should be able to modify users, groups and privileges	P1
AD-005	The administrator should be able to add resources	P1
AD-006	The administrator should be able to modify resources	P1
AD-007	The administrator should be able to approve/reject reservations	P1

AD-008	The administrator should be able to cancel reservations of resources	P2
AD-009	The administrator should be able to export reservation details to ExcelSheet	P1

## Employee

An employee must be able to perform the below mentioned functionalities. Requirement ID	Description	Priority
US-001	The user should be able to block (reserve) required resources	P1
US-002	The user should be able to cancel the reservation	P1
US-003	The user should be able to return the resource	P2

## Non-functional Requirements

- The application should be intuitive to use and easy-to-maintain
- Designer/Programmer need to consider suitable conditions/constraints and assumptions<sup>1</sup>
- The application should be able to handle simultaneous requests from multiple clients
- Upon installation, the administrator-is expected to have default UserID and Password
- The system may force the administrator change his/her password to a non-default one, upon initial login

### Target Environment:

- Intel hardware machine (PC P4-2.26 GHz, 512 MB RAM, 40 GB HDD)
- Windows Operating System
- Server – Apache Tomcat 6 or higher
- Database – Oracle 9i or higher
- JRE 1.6 or higher
- Eclipse IDE

### **Assumptions/Dependencies/Limitations**

- • The number of resource types can be for e.g (Conference Rooms, Project Cubicles, Flex Cubicles, Laptops, Projectors)
- • The scope of reservation is limited to two months