| LIBRARY MANAGEMENT SYSTEM | DEPLOYMENT STRATEGY |
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**Purpose**: The purpose of the document is to formulate a deployment approach for the software application/system and is completed early in the project. A deployment strategy is a way to change or upgrade an application. The aim is to make the change without downtime in a way that the user barely notices the improvements.

| PROJECT IDENTIFICATION | | |
|---|---|---|
| **Project Name** | **Project Number** | **Date Created** |
| Library Management System | SE001 | 03/05/2019 |
| **Completed by** | | |
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## Deployment Strategy

The Deployment Strategy section of this document provides an overview of the deployment strategy planned for the software application/system. Included in the deployment strategy is timeline information, a description of the deployment approach, and associated benefits, assumptions and risks. Choosing the right strategy is an important decision, weighing the options in terms of the impact of change on the system, and on the end-users. There are multiple ways to deploy a new version of an application some of which includes recreate, ramped, blue-green, shadow and A/B testing.It totally depends on needs and budget. When releasing to development/staging environments, a recreate or ramped deployment is usually a good choice. When it comes to production, a ramped or blue/green deployment is usually a good fit, but proper testing of the new platform is necessary.We have incorporated blue-green as a part of the deployment strategy in our project.

| DEPLOYMENT APPROACH |
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| **Description** |
| We have incorporated blue-green as a part of the deployment strategy in our project. The new version (the blue version) is brought up for testing and evaluation, while the users will be still able to use the stable version (the green version). When ready, the users are switched to the blue version. If a problem arises, you can switch back to the green version.Also, The blue/green deployment strategy differs from a ramped deployment, version B (green) is deployed alongside version A (blue) with exactly the same amount of instances |
| **Benefits** |
| <ul><li>Instant rollout/rollback.</li><li>It also avoids versioning issue that means that the entire application is changed in a single go.</li></ul> |

## ASSUMPTIONS AND RISKS

### Risks

Proper testing of the entire new version before releasing the product is vital as the method is expensive and requires double resources and efforts.

### Assumption

After proper testing only,when the new version meets all the requirements the traffic is switched from version A to version B at the load balancer level.