
Configuration Management Plan

for

TimeTable Generator

Version 1.0 approved

CS-08

Indian Institute of Information Technology Vadodara

Team Members

Aman Yadav (201651007)

DakshKumar Gondaliya (201651014)

Kirtika Singhal (201651024)

Mayank Pathela (201651029)

Nikhil Sachan (201651034)

Parmeshwar Kumawat (201651035)

Revision History

| Name | Date | Reason For Changes | Version |
|-----------------|------------|--------------------|---------|
| Kirtika Singhal | 07/10/2018 | Initiate | 1 |
| | | | |

Table of Contents

| | |
|---|----------|
| 1. Introduction | 3 |
| 1.1 Purpose | 3 |
| 1.2 Scope | 3 |
| 2. Configuration Identification | 3 |
| 2.1 Identification of Configuration Items | 3 |
| 2.2 Document Configuration Identification | 3 |
| 2.3 Software and Data Configuration Identification | 4 |
| Every document would be uploaded on the shared Google Drive folder. And the code files are uploaded on GitHub where complete version history is maintained. | 4 |
| 2.4 Configuration Control | 4 |
| 2.4.1 Change Request | 4 |
| 2.4.2 Evaluation of a Change | 4 |
| 2.4.3 Implementing Change | 4 |
| 2.5 Policies Applicable, Directives and Procedures | 5 |
| 2.6 Resources | 5 |

1. Introduction

1.1 Purpose

The purpose of this document is to identify and describe a configuration management (CM) process for the TimeTable Generator. This plan describes in simple, straightforward terms the processes required to ensure that changes made to the software system are identifiable and controlled.

1.2 Scope

This version of the ConfigurationManagement Plan is applicable to the all the phases of the project. It may be modified prior to each of the remaining phases depending on the CM requirements for the phase. All the team members, while working on the project, will adhere to the approach outlined in this document.

2. Configuration Identification

Configuration Identification is the basis on which the configuration is defined and verified; each item and document is labeled; changes are managed; and, accountability is maintained.

2.1 Identification of Configuration Items

Identification involves categorizing the type of configurations that are to be controlled. The current configuration items that CM is tracking include:

- All type of code files
- All the documents related to project
- User or Developer manuals
- System Configurations

2.2 Document Configuration Identification

Following are the documents that would act as Configuration Items for our project:

- Software Requirements Specification
- System Design Document
- System Test Plan
- Project Plan

- User Manual

All the documents would follow the following naming conventions: "document_name version_number".

2.3 Software and Data Configuration Identification

Every document would be uploaded on the shared Google Drive folder. And the code files are uploaded on GitHub where complete version history is maintained.

2.4 Configuration Control

This section defines the following things:

- The layout of change request form
- Analysis and evaluation of a change request
- Approval or disapproval of a request
- Verification, implementation, and release of a change

2.4.1 Change Request

Following things should be specified for any change to happen:

- Name(s) and version(s) of the Configuration Items (CIs) where the problem appears
- Reviewer's name
- Date of request
- Description of the requested change

2.4.2 Evaluation of a Change

After submission of Change Request for a CI, it is evaluated by the author of that CI.

After evaluation, the Change Request is either approved or rejected.

A separate document named as Review Logs will be maintained for the changes in documents listing down the name of the document, author's name, date of creation, and reviewer's name.

2.4.3 Implementing Change

Firstly, Change Request should be checked if it is complete or not. The following things should be checked:

- The names and versions of the affected configuration items
- Verification date and responsible party

- The need for the change
- Description of the requested change

After checking the change request following things should be done:

- If the CI is Source Code and is accepted, it is added to the repository.
- If the CI is a document, it's version is updated and it is added to the final folder of Google Drive.

2.5 Policies Applicable, Directives and Procedures

- All Documents relevant to the project are uploaded and updated on the Google Drive and shared amongst the whole team.
- The source code is updated in a GitHub repository.
- The developers must follow the standard coding conventions.

2.6 Resources

The following tools are used:

- Deployment on the Heroku application
- Website Database at AmazonWeb Services(AWS).
- The Framework used for Front-End Development: ReactJs
- The framework used for Back-End Development: NodeJs