**Configuration Management**

for

trendAssist App

Version 1.1 approved

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**Introduction**

trendAssist is a business finance and trend prediction program that allows the user to input data over sales made in a day. This data will then be submitted into a database containing financial sales data for every day of the week. It will also allow the user to input data from years past to increase the accuracy of sales predictions; the program will then use this information to generate a new estimation of revenue for that same day of the week in the future and describe requirements needed to hit specific profit margins. This will enable an authorized user (owner or manager) to determine the optimal staffing needed on any given day to support the expected crowd and maximize profits. The most recent year’s data will be weighted higher than the previous year’s data to maintain accuracy and adjust for recent trends.

**2.1 Organization**

The software configuration is handled by all members of the project, with specific tools. Responsibilities are shared between all team members.

* The software configuration manager [SCM]
* The project manager [PM]
* The scrum manager [SM]
* 3 developers [D]

These roles change at the end of each scrum.

**2.1 Activities and responsibilities**

**When setting up the project**

* Identify the configuration items [SCM]
* Install the bug repository tool and set up the database [SCM]
* Install the software configuration repository tool and set up the database [SCM]
* Manage and structure the reference space [SCM]
* Define the configuration processes [SCM]

**During the project lifecycle**

* Export components for modification, test or delivery [SCM]
* Set under control validated components [SCM]
* Create version, write version delivery document [SCM]
* Approve reference configurations [PM]
* Verify version to be delivered and authorize deliveries [PM]
* Backup spaces [SCM]
* Do configuration audits [PM]
* Inspect configuration records [PM]
* Archive reference version [SCM]

**Management activities**

* Manage versions and archives [SCM]
* Manage configuration records [SCM]
* Produce reports and statistics [SCM]
* Manage reference space and its access control list [SCM]
* Manage spaces backup and archive media [SCM]
* Manage quality reports [PM]

**2.1.1 Decisions process and responsibilities**

At the end of an activity of the project

* Do a configuration freeze [SCM]
* Present a configuration state of the components impacted by the activity [PM]
* Present a documentation state of the components impacted by the activity [SCM]

Configuration management process audit

* Do the configuration management process audit [PM]
* Present the records of the configuration management process [SCM]
* Present the quality records of the configuration management process [PM]
* Present the records of the documentation management process [SCM]

**3.1 Configuration identification**

**3.1.1 Identify configuration items**

* Install mySQL on customers computer.
* Install Java on customers computer.
* Configure mySQL for customer specification.
* Configure trendAssist for customer specification.

**3.1.2 Name configuration items**

* mySQL
* Java 8.x.x
* Consumer device – CD.x

**3.1.3 Acquiring configuration items**

* We will send a developer [D] to configure the consumer device
* Software for customer will be modified in house before being deployed on location

**3.2 Configuration control**

**3.2.1 Requesting changes**

* Changes can be requested by customer by E-mail
* Changes can be requested by [D] by internal memo

**3.2.2 Evaluating changes**

* Changes requested will be reviewed by [SCM] then sent to [PM]
* Changes requested will be reviewed by [PM] then send to [D]

**3.2.3 Approving or disapproving changes**

* Changes will be checked for feasibility
* Changes will be evaluated for cost
* Changes will be evaluated for priority

**3.2.4 Implementing Changes**

* Changes requests are emitted from by the project manager according to the problem resolution process
* When a change request is accepted by the project manager/product manager, a branch is created in the SCM
* Branch Identification will be trendAssist.[CustomerID].x

**3.3 Configuration status accounting**

**3.3.1 Metrics to be tracked and reported**

* Number of customers using version x.x.x of trendAssist
* GitHub version control and metrics tracking
* SCRUM management

**3.3.2 Storage and access control of status data**

* GitHub is used for storage control of the trendAssist software and configuration
* Consumer data will be stored on the customers local device unless otherwise requested to protect customer data.

**3.4 Configuration evaluation and review**

**3.4.1 Auditing**

**3.4.2 Definitions**

**3.5 Interface control**

**3.6 vendor control**

* Product redistribution outside of our team is not allowed

**3.7 Release Management and Delivery**