

## Dashboard

### The Benefits Of Choosing A Turnkey Dashboard Solution

#### 1.0 Introduction

This white paper will provide an analysis on the effort required to build a typical dashboard project. (Charts, Gauges, Maps) in. Dashboard.

#### 2.0 Project Overview

This section will define the requirements of a typical dashboard project and any assumptions that are true in most cases.

##### 2. Requirements

Company ABC is looking for a web-based dashboard solution to track various IT support metrics. ABC has identified that five dashboards are required for each major support category which include the following: incidents, change orders, problems, call statistics and summary.

The summary dashboard displays a key metric from each major support category. Users will be able to navigate from the summary dashboard to a support category dashboard by drilling down on the associated key metric's visualization. Each support category dashboard will display six key metrics as defined by ABC.

The dashboard will provide users with the ability to filter data based on time. Data shown in the dashboards is aggregated on a monthly basis; users will be able to view previous months' data by setting appropriate filter ranges. The dashboards will initially show the current month's data.

#### 3.0 Detailed Requirements

##### 3.0 Technology Platform

The dashboard application is a web-based or mobile application Connected to ASP.NET /or Share point to deliver your solution.



# Dashboard

## 3.2 User Interface / User Experience (UI/UX)

This task involves the design of the dashboard user interface and user experience, such as the dashboard theme and styling of individual components.

The task is broken down into the following subtasks:

1. Design graphics and headers
2. Design layouts and navigation and select color themes
3. Implementation of the dashboard designs

## 3.3 Data & Business Logic Layer

This task entails the implementation of the data and business logic layer for the solution. The data layer would provide the connection to the data sources. The business logic layer would perform the necessary calculations on the data. Both items would provide the dashboards with the necessary data for visualization.

The task is broken down into the following subtasks:

1. Design and implement a data object model
2. Implement data layer
3. Implement the business logic layer

## 3.4 Dashboard Framework

This task involves creating a dashboard framework to handle common dashboard functionality, such as drill downs and filtering. NOTE: There is generally more to a dashboard framework than just providing the functionality to do filtering and drill downs. However, for simplicity, these are the basic functionality the dashboard framework should support.

The task is broken down into the following subtasks:

1. Implement the dashboard parameters filtering framework
2. Implement the dashboard drill down framework

## 3.5 Dashboard Assembly

This task involves combining the individual components to produce a completed dashboard.

The task is broken down into the following subtasks:

1. Connect the data visualization components to data
2. Set up the summary dashboard for drill down functionality
3. Set up filtering on the remaining dashboards



## 4.0 Development Resources

A minimal resources are needed to successfully deliver a dashboard solution. This section lists the personnel needed to accomplish this in a timely fashion. This table compares the necessity for the resource type , Customers have the option to develop the entire application if the appropriate resources are available , otherwise , we supply the complete application customized per the customers specifications.

Resource Type	Task(s)	Dashboard Team	Customer Team
Graphic Artist	Branding and color schemes	Supplied	Optional
Web Developer	To develop the web pages using CSS, JavaScript, ASP.NET	N/A	Optional
.NET Application Developer	To develop the business logic and hooking to the data sources	N/A	Optional
Business Analyst	Identify KPIs and Design Dashboards	Supplied	Optional
Database Administrator	Discover and Prepare underlying KPI data	Supplied	Optional
UI Developer	Define and implement user interface functionality and experience	N/A	Optional

## 5.0 Development Time

Task	Sub Task	Dashboard Developers	Custom Development Time
User Interface / User Experience			
	Design graphics and headers	1-2 days	2-3 Days
	Design of layouts and navigation and selecting color themes	0.5 - 1 day	3-5 Days
	Implementation of the dashboard designs	0.5 - 1 days	3-5 Days
Data & Business Logic Layer			
	Design and implement a data object model	0.5	1-2 days
	Implement data layer	0.5	1-2 days
	Implement business logic layer	0.5 - 1 day	3-6 days
Dashboard Framework			
	Implementing dashboard parameters filtering framework	0.5	1-2 days
	Implement dashboard drill down framework	0.5	1-2 days
Dashboard Finishing			
	Connect data visualization components to data	0.5	1-2 days
	Set up summary dashboard for drill down functionality	0.25 - 0.5 days	1-2 days
	Set up filtering on dashboards	0.25 - 0.5 days	1-2 days
<b>Total Time</b>		<b>3 - 6 days</b>	<b>18 to 33 days</b>