

Dashboards Implementation using Tableau

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Scope of the project

- ▶ The well-organized user interface facilitates easy customization of views with just a few clicks.
- ▶ Users have the capability to handle large volumes of data efficiently.
- ▶ Data visualization tools enable easy identification of trends, outliers, and patterns in data.
- ▶ Organizations can utilize Tableau dashboards to represent information graphically through charts, graphs, and maps.
- ▶ The project aims to develop Tableau dashboards for visualizing data effectively.

Selection of Methodology

- ▶ For this project, the Agile Methodology will be applied.
- ▶ Project teams may respond to consumer feedback and continuously enhance the product because of the agile method's flexibility.
- ▶ The growth process also includes meaningful chats, brainstorming sessions, and workshops.
- ▶ For this project, the Agile Methodology was selected because it greatly reduces overall risk while maximizing value at every stage of the process.

Usage of Technology in project

- ▶ The project is planned to make use of the following technologies:
- ▶ **Confluence** - Gather documentation pertaining to the project.
- ▶ **Jira** - A tool for planning and management.
- ▶ **Oracle** - Used for data modeling
- ▶ **Dashboard calculations** - are validated using PIVOT Table.
- ▶ **Urban Code Deployment (UCD)** - Code can be deployed in several environments (DEV, QA, IST, and Prod.)
- ▶ **Using the Tableau tool** - one can design dashboards that include graphic components like graphs, charts, and maps.

Project Plan

- The project consists of five milestones and seven resources (a comprehensive project plan is included in the slide).

	i	Task Name	Resource Names	Duration	Start	Finish
1		Initial Planning Phase		13 days	Thu 10/19/23 8:00 AM	Mon 11/6/23 5:00 PM
2	✓	Requirements and its Documentation	Rahul,Rohit	5 days	Thu 10/19/23 8:00 AM	Wed 10/25/23 5:00 PM
3	✓	Internal Team Review	Rahul,Rohit,James,J	1 day	Thu 10/26/23 8:00 AM	Thu 10/26/23 5:00 PM
4	✓	Stakeholder Review	Rose,Mary	3 days	Fri 10/27/23 8:00 AM	Tue 10/31/23 5:00 PM
5	✓	Stakeholder Approval	Ram	4 days	Wed 11/1/23 8:00 AM	Mon 11/6/23 5:00 PM
6		Initial Planning End Milestone		0 days	Thu 10/19/23 8:00 AM	Thu 10/19/23 8:00 AM
7		Design		11 days	Wed 11/1/23 8:00 AM	Wed 11/15/23 5:00 PM
8	✓	Application Architecture	Rahul,Rohit	3 days	Wed 11/1/23 8:00 AM	Fri 11/3/23 5:00 PM
9	✓	User Interface Design	Jane,ames	2 days	Mon 11/6/23 8:00 AM	Tue 11/7/23 5:00 PM
10		Environment / Framework setup	Smith,Mary	2 days	Wed 11/8/23 8:00 AM	Thu 11/9/23 5:00 PM
11	✓	Programming	Rahul,Rohit	2 days	Fri 11/10/23 8:00 AM	Mon 11/13/23 5:00 PM
12	✓	Security model for Application	Jane	2 days	Tue 11/14/23 8:00 AM	Wed 11/15/23 5:00 PM
13		Design End Milestone		0 days	Wed 11/15/23 5:00 PM	Wed 11/15/23 5:00 PM
14		Development & Coding		22 days	Tue 11/14/23 8:00 AM	Wed 12/13/23 5:00 PM
15	✓	Database Development	Rahul,James,Rohit	7 days	Tue 11/14/23 8:00 AM	Wed 11/22/23 5:00 PM
16	✓	Development of Application Program Interface	Krishna,Mohan,Anar	10 days	Thu 11/23/23 8:00 AM	Wed 12/6/23 5:00 PM
17		Frontend Development	James,Smith	5 days	Thu 12/7/23 8:00 AM	Wed 12/13/23 5:00 PM

Project Plan(contd.)

	i	Task Name	Resource Names	Duration	Start	Finish
18		Development and Coding End Milestone		0 days	Wed 12/13/23 5:00 PM	Wed 12/13/23 5:00 PM
19		Testing		11 days	Thu 10/19/23 8:00 AM	Thu 11/2/23 5:00 PM
20	✓	Functional Testing	Carl	5 days	Thu 10/19/23 8:00 AM	Wed 10/25/23 5:00 PM
21	✓	Acceptance Testing	Robert	5 days	Thu 10/26/23 8:00 AM	Wed 11/1/23 5:00 PM
22	✓	Testing of Performance	Micheal	3 days	Thu 10/26/23 8:00 AM	Mon 10/30/23 5:00 PM
23		Smoke Testing	John	3 days	Tue 10/31/23 8:00 AM	Thu 11/2/23 5:00 PM
24		Testing Milestone		0 days	Thu 10/19/23 8:00 AM	Thu 10/19/23 8:00 AM
25		Deployment Phase		19 days	Tue 10/31/23 8:00 AM	Fri 11/24/23 5:00 PM
26	⚠	PR Approval	Rahul,Rohit	2 days	Tue 10/31/23 8:00 AM	Wed 11/1/23 5:00 PM
27		Production Deployment	Vinu	2 days	Thu 11/2/23 8:00 AM	Fri 11/3/23 5:00 PM
28		Post Bug Fix	Kate	6 days	Mon 11/6/23 8:00 AM	Mon 11/13/23 5:00 PM
29	⚠	Regression Testing	James,Smith	3 days	Tue 11/14/23 8:00 AM	Thu 11/16/23 5:00 PM
30		Support End User	Jane,Rose	6 days	Fri 11/17/23 8:00 AM	Fri 11/24/23 5:00 PM
31		Deployment Phase End Milestone		0 days	Fri 11/24/23 5:00 PM	Fri 11/24/23 5:00 PM

Financials

PROJECT VALUE:

- ▶ High-volume data processing in the cloud or on a business's servers is supported by the Tableau platform. With the use of drag-and-drop reports, dashboards, and user requests, Tableau technologies gather data from several sources and store it in a data center for analysis.
- ▶ Using the strong security capabilities of SSL/TLS, Tableau Server encrypts communications between clients and Tableau Server as well as between Tableau Server and the databases.
- ▶ Tableau will assist in shielding users, content, and organization information from prying eyes.
- ▶ Data and content governance must be defined by stakeholders. Tableau's dynamic estimation, bringing together all relevant parties in data science
- ▶ The next few years will see this initiative develop in order to gather, examine, and share data.

Financials

- ▶ Take into account the financials for seven resources and paid tools (Tableau, Oracle, UCD, Jira) for each milestone.
- ▶ First milestone: \$1800
- ▶ second milestone: \$1900
- ▶ Third Milestone: \$3000
- ▶ Fourth milestone: \$5000
- ▶ Fifth Milestone: \$3500
- ▶ Entire Expense: \$15,200

Time Management

The project is utilizing the Agile Methodology, hence the following planning needs to be taken into account:

Sprint Planning : Specify what needs to be provided and how it will be done in upcoming sprints. worked on in tandem with the whole scrum crew. Allotted time: two hours for every sprint week.

Daily Scrum (Stand-Up meeting) : Examine the sprint goal's progress and follow up with the POC to address any problems or obstacles. There are fifteen minutes available each day.

Sprint Review : Key stakeholders are presented with the outcomes of the sprint work and the product goal's advancement during the sprint review. Allotted time: three hours

Sprint Retrospective : Evaluate the people, relationships, processes, and tools used during the sprint. Determine and group the successful aspects.

Track scheduled leaves of absence for team members.

Control and Monitor

- ▶ We will be able to carry out a number of duties on the project using the JIRA platform, including :
- ▶ Assigning tasks (To Do, In Progress, Internal Review, Client Review).
- ▶ Utilize subtasks to make sure the intricate jobs are finished.
- ▶ Make use of subtasks to ensure that the detailed activities are completed.
- ▶ Give time-sensitive issues a deadline.
- ▶ Any pictures or papers that may help the assignee finish the task should be attached.
- ▶ Give it a priority so the person receiving it knows how essential it is.
- ▶ Record any bugs that are found during testing.

Quality Metrics

- ▶ **Code Quality:** This metric will assess the code's readability, clarity, efficiency, and maintainability.
- ▶ **Reliability** can be tested using Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR).
- ▶ **Performance:** Analyzing how much time and resources the program is consuming to provide the service can tell you whether or not it is meeting the user's needs.
- ▶ **Usability:** This metric is used to assess how happy the program is with the end user.
- ▶ **Maintainability** - Metrics include performance in various contexts, the Mean Time to Change (MTTC), and the amount of time needed to adjust to new features or functions.
- ▶ **Security:** It makes sure that no changes are made without authorization, that cyberattacks are not a concern, and so on.

Summary

- ▶ One of the key factors contributing to the success of this project is effective teamwork and communication. Inadequate communication can lead to a host of other problems, including unwanted delays. Therefore, it is crucial to stress communication from the outset of any endeavor.
- ▶ Consider each person's abilities when assembling a team for a project and use them where they will most help the group.
- ▶ Using a group brainstorming process to generate ideas helps solve a particular problem.
- ▶ Project success depends on documentation because it encourages knowledge exchange, which helps your team comprehend how procedures operate and what typical project outcomes look like.
- ▶ Before implementing, final sign-off approval (CR) from relevant parties should be acquired.
- ▶ It is not recommended to update or modify any code while it is under freeze. Its goal is to prevent additional bugs from appearing before the code is made public.
- ▶ Create a document summarizing the lessons you learnt from the project's successes, setbacks, and problems at the end of its life cycle. in order for things to improve in the future.
- ▶ A team member will be available every week to support and resolve difficulties in the production environment during the warranty term.

Thank you