Discount Card Project WBS

Estimates

Assumptions:
- The estimates assume that there will be no significant external dependencies or delays that would impact the project timeline or budget, E.g. Sponsors will provide the needed finances on time.
- The project will proceed according to the WBS provided without significant changes or delays.
- The project will be developed using industry-standard development tools and technologies.
- All manpower was available, skilled, efficient and without drops.
- The project team will be fully dedicated to this project during their assigned tasks.
- The estimates do not include any contingency or buffer time to account for unforeseen events or changes in the project scope.
- The cost estimate assumes that the project team will have access to necessary hardware and software resources, such as development environments, servers, and testing tools.
- Market feedback was sufficient in testing/implementation phase.
The estimates assume that the project team will be able to effectively communicate and collaborate throughout the project to ensure timely completion of tasks.

Manpower:
Assuming 40-hour workweek

Number	Manpower Type	Hourly Rate	Weekly Rate	Total Weeks	Total Cost
1	Project Manager	$ 100.00	$ 4,000.00	15	$ 60,000.00
2	Business Analyst	$ 80.00	$ 3,200.00	4	$ 25,600.00
4	Designers	$ 70.00	$ 2,800.00	4	$ 44,800.00
4	QA Testers	$ 80.00	$ 3,200.00	6	$ 76,800.00
6	Developers	$ 90.00	$ 3,600.00	10	$ 216,000.00
3	Database Administrator	$ 100.00	$ 4,000.00	7.4	$ 88,800.00
2	Technical support	$ 70.00	$ 2,800.00	1.8	$ 10,080.00
2	Trainers	$ 80.00	$ 3,200.00	1.8	$ 11,520.00
1	Gmaps API 700$ /100k request	$ -	$ -	4	$ 1,000.00
Total				**Rough total**	**$ 534,600.00**

Rough total cost for project = 534,600$

Estimated Timespan:
Initiation phase: 6 Days
Planning phase: 19 Days
Design phase: 20 Days
Development Phase: 22 Days
Testing Phase: 10 Days
Implementation phase: 9 Days
Documentation: 21 Days
Deployment: 5 Days
Post Implementation Review/Closure: 3 Days

Note that some phases may overlap
Rough Total estimated time: 108 Days

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1 — Initiation Phase — Discount Card Project
- 1.1 Determine project scope
- 1.2 Identify and prepare stakeholders register
- 1.3 Secure project sponsorship
- 1.4 Define preliminary resources
- 1.5 Secure core resources

2 — Planning Phase — Discount Card Project
- 2.1 Build Team
- 2.1 Obtain approvals to proceed (concept, timeline, budget)
- 2.11 Secure required resources
- 2.2 Plan Stakeholders Engagement Matrix
- 2.3 Create WBS
- 2.4 Identify Project Risks Impact / Probability
- 2.5 Plan Risk responses and strategies
- 2.6 Estimation for WBS
- 2.7 Incorporate feedback on software specifications
- 2.8 Develop stakeholders communication plan
- 2.9 Develop delivery timeline

3 — Design Phase — Discount Card Project
- 3.1 Develop user interface design
- 3.2 Develop application architecture
- 3.3 Create database design
- 3.4 Create wireframes and mockups
- 3.5 Obtain approval to proceed

4 — Development Phase — Discount Card Project
- 4.1 Develop application framework
- 4.2 Develop application functionality
- 4.3 Develop database and server functionality
- 4.4 Conduct testing and quality assurance

5 — Testing — Discount Card Project
- 5.1 Develop unit test plans using product specifications
- 5.2 Develop integration test plans using product specifications
- 5.3 Unit Testing — 5 Testing
  - 5.3.1 Review modular code
  - 5.3.2 Test component modules to product specifications
  - 5.3.3 Identify anomalies to product specifications
  - 5.3.4 Modify code
  - 5.3.5 Re-test modified code
- 5.4 Integration Testing — 5 Testing
  - 5.4.1 Test module integration
  - 5.4.2 Identify anomalies to specifications
  - 5.4.3 Modify code
  - 5.4.4 Re-test modified code

6 — Implementation Phase — Discount Card Project
- 6.1 Release application to production environment
- 6.2 Conduct user training and education
- 6.3 Monitor application performance and usage
- 6.4 Address user feedback and issues

7 — Documentation — Discount Card Project
- 7.1 Develop Help specification
- 7.2 Develop Help system
- 7.3 Review Help documentation
- 7.4 Incorporate Help documentation feedback
- 7.5 Develop user manuals specifications
- 7.6 Develop user manuals
- 7.7 Review all user documentation
- 7.8 Incorporate user documentation feedback

8 — Deployment — Discount Card Project
- 8.1 Determine final deployment strategy
- 8.2 Develop deployment methodology
- 8.3 Secure deployment resources
- 8.4 Train support staff
- 8.5 Deploy software

9 — Post Implementation Review — Discount Card Project
- 9.1 Document lessons learned
- 9.2 Distribute to team members
- 9.3 Create software maintenance team