E-Commerce Web Application

Project Planning Document

Version: 1.0

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1. Stakeholders Description

S. No.	STAKEHOLDERS	REQUIREMENTS
1	Customers	1. View products 2. Filter products by categories 3. Filter products by subcategories 4. Filter products by brand 5. Buy Products 6. View products in cart 7. Change order details in cart 8. Place order 9. Do payments for products 10. View previous orders 11. View order receipts 12. Print order receipts 13. Receive order confirmation message 14. Receive order receipts on mail
2	Vendors	1. Add products in database 2. View orders placed by customers 3. View order receipts. 4. Print order receipts. 5. Add products in bulk (through excel sheet) 6. Modify product details. 7. Delete products from database.
3	Administrator (Master)	1. Add categories and sub-categories in database 2. Add user and vendors 3. Modify user status 4. View all users of the application 5. Remove user from the application 6. View all categories and sub-categories in the database. 7. Add privileges for the vendors. 8. Modify privileges for the vendors 9. Delete privileges of the user. 10. View invoices details. 11. Print all the invoices details.

2. Process Model and Justification

Iterative model is to be used for this project as it will suit the best for this project as per the requirements. As our application is divided into several module, so, we have to build it partially, module-wise and then integrate to reach our final application goal. The advantage of using iterative model in this application is that, our system can have risk management and individual module can be tested in each build phase. Other than that, testing individual module will be much easier and after every testing phase, we can combine the modules for integration testing. After successful integration testing, we can proceed to another build, without affecting our previous application.

3. Work Breakdown Structure

TASK 1: Setting up work environment

    TASK 1.1: Understanding requirements

    TASK 1.2: Installing necessary softwares/applications

    TASK 1.3: Gathering resources and setting up.

TASK 2: Creating user addition module

    TASK 2.1: Creating Login/Signup page

    TASK 2.2: Creating tables in database

    TASK 2.3: Setting up constraints

    TASK 2.4: Testing the developed module

TASK 3: Creating Customer Module

    TASK 3.1: Creating product addition to cart module

        TASK 3.1.1: Create tables in database

        TASK 3.1.2: Define constraints in database

        TASK 3.1.3: Create product display page

        TASK 3.1.4: Create customer cart

TASK 3.2: Creating payment portal module

    TASK 3.2.1: Setup payment page

    TASK 3.2.2: Setup email-confirmation module

    TASK 3.2.3: Setup message-confirmation module

TASK 3.3: Creating previous orders module

    TASK 3.3.1: Create front-end page

    TASK 3.3.2: Create tables in database

    TASK 3.3.3: Create back-end part

TASK 3.4: Creating order receipt viewing module

    TASK 3.4.1: Create front-end page

    TASK 3.4.2: Create tables in database

    TASK 3.4.3: Create back-end part

TASK4: Creating Vendor Module

TASK 4.1: Creating product addition module

    TASK 4.1.1: Create tables in database

    TASK 4.1.2: Define constraints in database

    TASK 4.1.3: Create product addition forms

    TASK 4.1.4: Create form submission backend part

TASK 4.2: Creating product update module

    TASK 4.2.1: Setup product update frontend page

    TASK 4.2.2: Create update details backend

TASK 4.3: Creating products delete module

    TASK 4.3.1: Create front-end page

    TASK 4.3.2: Create delete product backend

TASK 4.4: Creating orders view module

    TASK 4.4.1: Create front-end page

    TASK 4.4.2: Create backend for viewing orders

    TASK 4.4.3: Create print module

TASK5: Creating Administrator Module

    TASK 5.1: Creating category/subcategory addition module

        TASK 5.1.1: Create tables in database

        TASK 5.1.2: Define constraints in database

        TASK 5.1.3: Create front end for viewing all categories and subcategories

        TASK 5.1.4: Create categories & subcategories addition forms

        TASK 5.1.5: Create form submission backend part

    TASK 5.2: Creating user management module

        TASK 5.2.1: Create front end for viewing all users.

        TASK 5.2.2: Create forms for user addition, user updating and details editing.

        TASK 5.2.3: Create form submission backend part

    TASK 5.3: Creating access management module

        TASK 5.3.1: Create tables in database

        TASK 5.3.2: Define constraints in database

        TASK 5.3.3: Create front end for viewing all menus and submenus

        TASK 5.3.4: Create privileges (menus) addition form, editing privileges form and deleting privilege form

        TASK 5.3.5: Create form submission backend part

    TASK 5.4: Creating invoice viewing module

        TASK 5.4.1: Create form for submitting user name for particular invoice.

        TASK 5.4.2: Create front end for viewing all invoices

TASK 5.4.3: Create form submission backend part.

TASK 5.4.4: Create front end for viewing invoices for particular user

4. Milestones and deliverables

Table 1: List of milestones and deliverables

MILESTONES	DELIVERABLES
Getting requirements	------
Risk Analysis and management- I	Project Planning Document
Bundling software requirements	
Preparing SRS document	SRS document
Building work flow of design and development	------
Preparing SDS document	SDS document
Completion of TASK 1	
Testing and debugging – I	Test report- I , Prototype - I
Completion of TASK 2	
Testing and debugging –II	Test report - II
Integration testing- I	Prototype – II
Completion of TASK 3	
Testing and debugging –III	Test report - III
Integration testing- II	Prototype – III
Completion of TASK 4	
Testing and debugging –IV	Test Report - IV
Integration testing- III	Prototype – IV
Completion of TASK 5	
Testing and debugging –V	Test Report - V
Integration testing- IV	Prototype – V
Software Testing and Debugging	Full version of software (to be hosted)

5. Activity Dependencies

Table 2: Activities and dependencies

TASK	LABEL	PREDECESSOR	ESTIMATED DURATION (DAYS)
Getting requirements	A	------	4
Risk Analysis and management- I	B	A	3
Bundling software requirements	C	A	4
Preparing SRS document	D	B, C	2
Building work flow of design and development	E	D	3
Preparing SDS document	F	E	2
Completion of TASK 1	G	F	3
Testing and debugging – I	H	G	2

Completion of TASK 2	I	F	3
Testing and debugging –II	J	I	2
Integration testing- I	K	H,J	3
Completion of TASK 3	L	F	3
Testing and debugging –III	M	L	2
Integration testing- II	N	K, M	3
Completion of TASK 4	O	F	3
Testing and debugging –IV	P	O	2
Integration testing- III	Q	N, P	3
Completion of TASK 5	R	F	3
Testing and debugging –V	S	R	2
Integration testing- IV	T	Q, S	3
Software Testing and Debugging	U	T	3

6. Project Schedule

Figure 1: Gantt chart
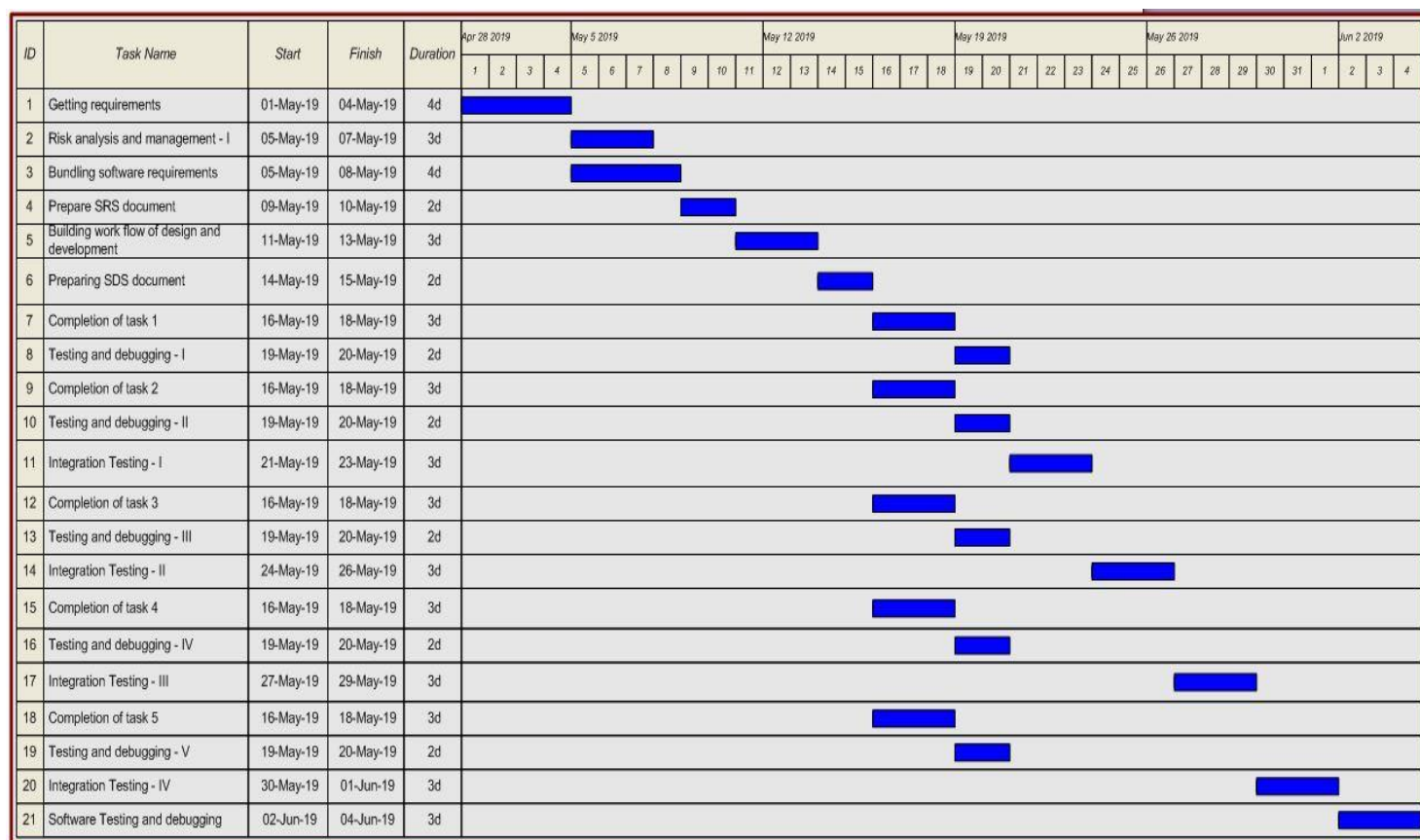
Figure 2: Activity Network
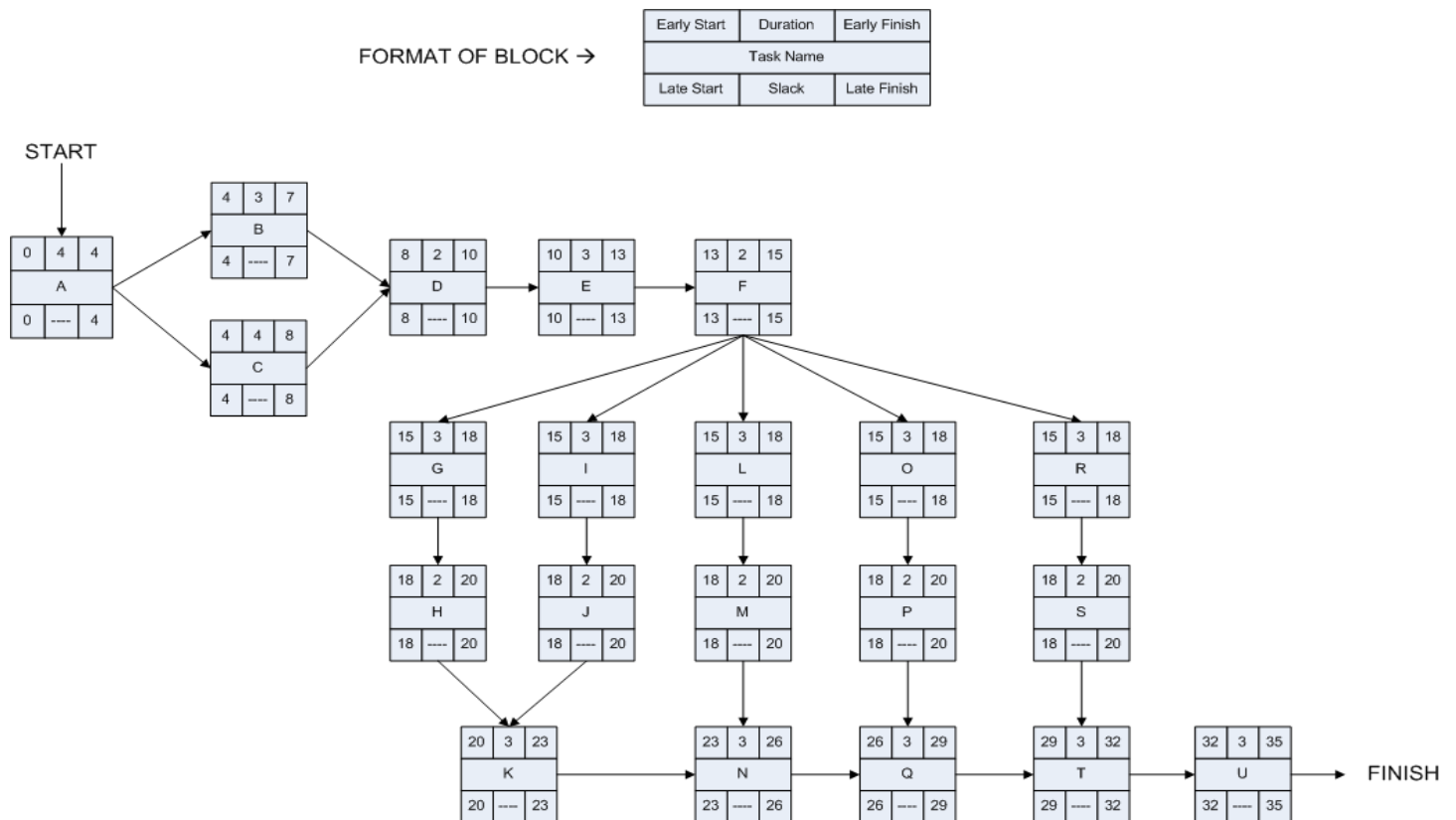
7. Risk Management Analysis

RISK TYPE	RISKS	PROBABILITY	EFFECTS
PEOPLE RISK	Project Staff is ill at crucial time	**Medium**	**Serious** 1. Project can get delayed 2. It can affect other queued up processes
	Project staff require some extra training sessions for some functionality understanding	**Low**	**Serious** 1. Project will not be completed in due time. 2. Additional requirements can also emerge.

TECHNOLOGY RISK	Technology components are not fit for purpose	**Medium**	**Catastrophic** 1. It can result in modification of user's requirement 2. It will reduce the quality of the software.
	Technology components are not reliable	**Low**	**Catastrophic** 1. System may crash anytime. 2. Data loss can occur
ORGANIZATIONAL RISKS	The product fails to match the organization's culture	**Medium**	**Catastrophic** 1. Company or organization can ask to make certain changes which may affect the overall software 2. Project can get delayed
	Changes in company norms and conditions	**Low**	**Serious** 1. Company may give some extra requirements. 2. We have to make certain changes in the overall software which may affect some other functionalities
REQUIREMENTS RISK	Customer or organization can't express the requirements properly	**High**	**Serious** 1. We have to do some extra work and use extra resources to figure out requirements 2. If it happens repeatedly, it can cause regular delay in the project.
	Customer requirements not satisfying legal norms and conditions	**Low**	**Catastrophic** 1. It will only lead to cancellation of that requirement. 2. It may affect other requirements and functionalities also.