



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Online Journal

A software project submitted

By

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Disclaimer

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Chapter 1: Statement of Work

1.1 Purpose/Objective:

How feasible the project will prove that will indicate the position and demand of the software in the market place. The investigation will provide the potential growth of the project and will determine that whether the investment will come to a good result or not.

The most important thing of the study is to ensure the total investment needed to successfully bring the project to completion is considered. Only when the feasibility study has addressed the total cost of completing the project can the study progress to the next level.

The feasibility study will also address costs and other factors that are indirectly associated with the project.

The utilization of a feasibility study has often assisted companies in understanding which projects to develop and which ones to abandon before investing resources in something that ultimately shows no promise of generating revenue. Taking the time to engage in a pilot or feasibility study does involve some usage of available resources, but these costs are much more readily absorbed than the larger amount that would be expended on a project that ultimately proved to be worthless. A correct feasibility study can clarify and objectify the total things and purposes on the ground of investment will be fruitful or not.

1.2 Scope:

The scope of the project is more preferable to the platform of e-world for online journal system. The system can be divided into several phases:

1. Online version of printed journals
2. Online equivalent of printed journals with additional multimedia materials.
3. Remote access
4. Access through database
5. From the library server

Admin has the highest authority over the entire system. Admin responsibilities consists of update or modify existing system, ensure data security and user authentication, assign necessary role and privileges system users and as well as to the clients. Admin has the power to take away provided privileges that has been assigned to users or clients.

The system will provide module for every client. By this module our client will be able to see all of their transaction history and all other necessary information.

The concept of online journal will empower the easement to all those students who faces difficulties into a manual journal system. They will easily able to aid scholarly works, provision of archives and unique facilities.

1.3 Proposed System:

The site is for creative people who are looking for a platform to support their innovation, getting a third party opinion or just simply checking if their idea is actually relevant to the current environment or not. This site is also for people who are looking for ideas to develop their own innovation and lastly this app is for investors who are looking for some creative innovation to help their organization or their own projects

Benefits of Proposed System

- ✓ Faster and secure journal work.
- ✓ Dynamic client management which will require less manpower.
- ✓ Data Backup facilities
- ✓ Instant journal history.
- ✓ Less paperwork
- ✓ Compliance with time

1.4 System Features

Admin

- ❖ Manage users.
- ❖ Manage documents.
- ❖ Manage charts.

Individual Client Module

- ❖ Comment
- ❖ Manage documents.
- ❖ View charts.

1.5 Environment

1.5.1 Organizations Involved

Project Client: ABHIJIT BHOWMIK.

Developer: Online Journal team.

User: Online Users.

1.5.2 Processing

- ❖ This Web Application will have a graphical user interface which will be able to view by any browser.
- ❖ That means it's a website or web application which is browser independent.
- ❖ Two working modules. Administrator and Client
- ❖ This website will store the information of all registered user which can be viewed by the administrator of this software.
- ❖ Authenticated & secure login system and secure data transmission for all user.

1.5.3 Security

System's security requirements:

- User authentication is required to access the website.
- A client or user must be a registered user to login to use the features.

1.6 Assumptions

Some third party software may be used to build up this project. These are free components, most of them are open source. We have used Opera, Mozilla Firefox, and Google Chrome etc. as a web browser to access user interface as client application. So our project will not be affected because we are not using anything for which it becomes illegal to use.

Some open source libraries and software's are used to build up this project:

- ❖ PHP ZIP files Library to use file compression.
- ❖ PHP Session to verify user login,
- ❖ For dynamic interface some Ajax library is used.
- ❖ Also use JSON,JQUERY

1.7 Constraints

- Usage outside regulation: Data passes from client to server through TCP/IP & we are not using any public key encryption service like SSL certificate. So we have constraints in case of passing user data. It may cause – Confidentiality, Integrity problems. Only registered users are valid & valid users can use the software through Client Application with help of Internet Browser on server side. For any missing password found by anonymous user, responsibility goes to valid user.
- Bandwidth limitations: It may lose server connection for technical error (Depends on Hardware/Internet connection). We need to run query again.
- Databases: Databases we are using MySql Database. User queries more than server's limitations we need to check databases and refresh table data. In case of lack of DB caching.
- Parallel operations: Parallel use of other Internet application with this software may hamper in bandwidth, may occur taking time for a query for slow connections.
- Language requirements: Language is used in this software is PHP. Suppose any user wants Oracle Database we need to use bind variable technique.
- Communications protocols: Communication protocols we are using- TCP/IP to interact with the server. Other protocol is not considerable if user wants.
- Security considerations: If user doesn't want to buy SSL security then client applications will not using any public key encryption service like SSL certificate (i.e. 128 bit RSA encryption). So we have constraints in case of passing user data.

1.8 Proposed system

1.8.1 Resources

All the resource needed is provided below.

1.8.2 Hardware:

Processor: Intel Corei3

Motherboard: Gigabyte G31 S2

Memory: 4GB, 500GB HDD

Graphics Card: On Board

1.8.3 Software

In software interface the connections between our product and other specific software components are:

Dot Net Framework 3.5 or higher, Operating Systems are Windows 98 to Windows 8.or MAC OS X 10.5 or above as an integrated development environment (IDE), LIVE_LOGIN is a Class which integrates login, registration and validation. User can Search particular document through queries, those will be execute in the server and many more.

Assumed implementation constraint can be:

- System Failure
- Power Failure
- Implementation Constraint in SRS
- The project may not meet the agreed quality parameters
- The project may cause any impact on other ongoing processes.
- The project might not deliver on the agreed time

1.8.4 Operating Environment

The system will be operated from the external (your preferred data center) Linux Server in which site will be hosted. Hosting server has 99% Uptime. This website is platform independent. User application is accessible through various kinds of browsers like Opera, Mozilla Firefox, and Google Chrome etc. This website is a web application where client application has user interfaces through browser and main part is hosted on Apache Server. IBM or MAC any platform user can use. Operating System can be used Windows of any version from Windows 8 to Windows 10, MAC OS X 10.5 or above.

1.9 Project Time & Cost

1.9.1 Project Period

- Expected time of completion of project is 12 months.

1.9.2 Project Schedule

Term	Description
BA	Business Analyst
PM	Project Manager
D	Developer
QT	Quality Tester

	A	B	C	D	E	F	G	H	I
2	Project Schedule								
3				Project start date		21/1/2018			
4				Project end date		20/1/2019			
						Work days	% complete		
5	WBS	Task	Lead	Start	End				
6	1 Project Analysis		PM/BA	21/1/2018	21/3/2018				
7	1.1	Define User Requirements		21/1/2018	11/2/2018	16	100%		
8	1.2	Analyze website Requirements		12/2/2018	22/2/2018	9	100%		
9	1.3	Cost and Functionality Analysis		23/2/2018	21/3/2018	20	100%		
10	2 Design		PM/D	21/3/2018	19/5/2018				
11	2.1	Define standards for project		21/3/2018	30/3/2018	7	100%		
12	2.2	Design website structure		31/3/2018	9/4/2018	7	100%		
13	2.3	Desktop/User interface		10/4/2018	25/4/2018	12	100%		
14	2.4	Security features		26/4/2018	3/5/2018	6	0%		
15	2.5	Prototyping		3/5/2018	19/5/2018	11	100%		
16	3 System Development		D/QT	20/5/2018	20/9/2018				
17	3.1	Web pages		20/5/2018	15/6/2018	20	50%		
18	3.2	Database		16/6/2018	18/8/2018	45	0%		
19	3.3	Unit/Component test		19/8/2018	20/9/2018	22	0%		
20	4 System Integration		D/QT	21/9/2018	18/10/2018				
21	4.1	Link pages and Images		21/9/2018	30/9/2018	6	50%		
22	4.2	Link Database		1/10/2018	18/10/2018	14	0%		
23	5 Overall System Test		QT	19/10/2018	5/1/2019				
24	5.1	Page Links		19/10/2018	11/11/2018	16	0%		
25	5.2	User interface		12/11/2018	24/11/2018	9	0%		
26	5.3	Database access		25/11/2018	15/12/2018	15	0%		
27	5.4	Exception handling		16/12/2018	5/1/2019	15	0%		
28	6 Trial Trading		PM	6/1/2019	20/1/2019				
29	6.1	Connection to the internet		6/1/2019	20/1/2019	11	0%		

1.9.3 Hosting Package

□ Domain cost is Tk. 900/Year

Package A: Great for small websites

- **Web Space:** 9,987Mb
- **Bandwidth:** 20,987Mb
- **Databases:** 10
- **Mailboxes:** Unlimited
- **FTP Accounts:** Unlimited
- **1-Click Installations**

Tk. 5680/year

Package B: Perfect for medium sized websites

- ☐ **Web Space:** 19,987Mb
- ☐ **Bandwidth:** Unlimited
- ☐ **Databases:** 50
- ☐ **Mailboxes:** 250
- ☐ **FTP Accounts:** Unlimited
- ☐ **IPhone Control Panel**

Tk. 6587/year

Package C: For the most demanding sites

- ☐ **Web Space:** Unlimited*
- ☐ **Bandwidth:** Unlimited*
- ☐ **Databases:** Unlimited*
- ☐ **Mailboxes:** Unlimited*
- ☐ **FTP Accounts:** Unlimited*
- ☐ **Free SSL certificate**

Tk. 8999/year

Estimated service cost

Description	Cost Assumption
Site launch (hosting)	55,000 BDT
Maintenance (1 year)	50,000 BDT
Developers	11,61,749BDT
Grand total	12,66,749 BDT

1.10 Risk assessment

<u>Risk</u>	<u>Probability</u>	<u>Impact</u>
Schedule slip	40%	B
System goes sour	30%	C
Project canceled	10%	D
False features rich	70%	A
Frustrated team members	10%	D
Average	36%	C
RISK PROBABILITY		36% (likely)
Impact value		
A	Catastrophic	
B	Critical	
C	Marginal	
D	Negligible	

The impact of each risk driver on the risk component is divided into one of four impact categories—negligible, marginal, critical, or catastrophic.

	Catastrophic	Critical	Marginal	Negligible
Schedule slip		Project delay, exceed budget		
System goes sour			Grading miscalculation, Unauthorized access	
Project canceled				Payment cancelation
False features rich	System doesn't give proper output. Unable to fulfill requirement			
Frustrated team members				Fail to meet deadline

1.11 Assessing overall project risk

1. Have software engineer team formally committed to support the project?

Answer: Yes. All the members are formally committed to support the project. They also ensure that they will give all types of available facilities.

2. Are requirements fully understood by the software engineering team and their customers?

Answer: Yes. As the software engineering team or the developers has the sound knowledge about the requirements so it is easily understandable by the team. The requirements details are well organized also informative, so it is under stable by the customers.

3. Are end-users enthusiastically committed to the project and the system/product to be built?

Answer: Yes. Because the end-users are expecting that, they will be able to find all kind of information about Chain Store Management System.

4. Have user been involved fully in the definition of requirements?

Answer: Yes. The user has been fully involved in the definition of requirements. They are aware of the application requirements.

5. Is project scope stable?

Answer: Yes. Project scope is stable because the minimum and mandatory scope is almost covered by the software engineering team. If any further scope will arise then just adding it with the old ones.

6. Does the software engineering team have the right mix of skills?

Answer: Yes. The software engineering team has the right mix of skills. The team members have the capability of doing their work in a team, ability to work in pressure and also have sound knowledge according to the software implementation.

7. Are project requirements stable?

Answer: Yes. Currently all possible requirements are being listed, and seem that if anything would be added later to the list will not make the project unstable. All requirements for this project are easily available that will enthusiast the end-user to use it.

8. Does the project team have experience with the technology to be implemented?

Answer: Yes. The project team has experience with the technology to be implemented because they have the sound knowledge about the technologies and the technologies are also implemented by them before.

9. Does the project team and client are aware about the possible risks?

Answer: Yes. Project team prepare the possible risk assessment and aware of handling the risk. Client is also being notified.

CHAPTER 2: SOFTWARE REQUIREMENT SPECIFICATION

2.1 Objectives and Scope

The scope the project is to be able to help the creators with their ideas by providing a platform to connect with the audiences throughout the internet and getting a third party opinion about his/her idea through a rating system. He/she may get a potential investor through the platform by showcasing his/her idea in order to further improve their research or inventions.

The system that is to be developed provides the public with journals on various subjects or topics.

The Online Journal is supposed to have the following features:

- The product provides the public members to view and rate the uploaded documents or journals
- The product provides the registered members with uploading new journal capabilities and related documents.
- The system lets the administrator manage the users and the uploaded documents.

The features that are described in this document are used in the future phases of the software development cycle. The features described here meet the needs of all the users.

2.2 Overview of the Present System

Currently there are very few system implemented in Bangladesh that are based only on providing journals to the Users. Our System will make both the journals or ideas and its related documents available to the Users. So Online Journal is not very popular and feasible through existing process. Our system will remove all the obstacles will make it handy for all types of people.

2.3 Data Flow Diagram of the Present System

Not required.

2.4 Weakness of the Present System

No available data older more than a year.

2.5 Overview of the Proposed System

This website is also for people who are looking for ideas to develop their own innovation and for investors who are looking for some creative innovation to help their organization or their own projects. It gives a global platform for users around the world to connect with each other. Users can also share photo, blog and communicate themselves through subscription.

2.6 Benefits of Proposed System

- Easy online communication between inventors and investors.
- Open source made freely available to journal world.
- Ideas that will help out different organization to build up their business
- Evaluate different problems or ideas and come up with different solutions.
- Innovative ideas for different research purposes.

2.7 System features

Admin

- Login
- Accept/Remove user
- Approve subscriptions
- Delete documents
- Manage pie charts

Registered User

- Register
- Login
- Upload/Delete docs
- Comment
- Add contact info
- Change password

Unregistered User

- Subscribe
- View Pie chart
- Search
- Rate
- Comment

2.8 Hardware and Software Requirements

2.8.1 Hardware

Processor: Intel Corei3

Memory: 4GB RAM, 500GB HDD

Graphics Card: On Board

2.8.2 Software

Using PHP, Operating Systems are Windows 8 to Windows 7.or MAC, PHP Designer 7 as an Integrated development environment (IDE), sublime text 3.

2.9 Human Resource Requirements

The total human resource needed for implementing and operating the system is mentioned below.

- **Hardware Specialist:** A part time hardware specialist is needed to manage all the computers of the center. So in case of any hardware failure he/she may come and solve the problem.
- **Computer operator/Data entry operator:** A computer operator is needed to upload the online question to the system in case specific user lacks the systems know how.

2.10 Constraints and Limitations

Assumptions and Dependencies

- The users have sufficient knowledge of computers.
- The user's computer should have Internet connection and Internet server capabilities.
- The users know the English language, as the user interface will be provided in English.

Constraints

- Bandwidth limitations: It may lose server connection for technical error (Depends on Hardware/Internet connection). We need to run query again.
- Databases: Databases we are using Oracle Database. User queries more than server's limitations we need to check databases and refresh table data.
- Parallel operations: Parallel use of other Internet application with this software may hamper in bandwidth, may occur taking time for a query for slow connections.
- Language requirements: If any user wants to use any language other than what we used for Oracle Database, we need to use bind variable technique.
- Communications protocols: Communication protocols we are using- TCP/IP to interact with the server. Other protocol is not considerable, if user wants.

2.11 Budget

Working hour	=	8 hour (per day)
Working day	=	22 day (per month)
Project duration	=	1 year (12 months)
Total working day	=	264 days

Salary:

Project manager (PM) =45000 taka

Business analyst=35000tk

Developer=30000tk

Quality Tester=30000tk

Man hour cost:

For project manager,

Table cost=3000tk per month

Computer cost=5000tk per month

Other cost=2500tk

Benefit =15000tk

Per day cost= $((45000+3000+5000+2500+15000)/22)/8$

=400.56 taka

For Business Analyst,

Table cost=2000tk per month

Computer cost=4000tk per month

Other cost=2500tk

Benefit =12000tk

Per day cost= $((35000+2000+4000+2500+12000)/22)/8$

=315.34 taka

For Developer,

Table cost=2000tk per month

Computer cost=5000tk per month

Other cost=2500tk

Benefit =10000tk

Per day cost= $((30000+2000+5000+2500+10000)/22)/8$

=281.25 taka

For Quality Tester,

Table cost=2000tk per month

Computer cost=5000tk per month

Other cost=2500tk

Benefit =10000tk

Per day cost= $((30000+2000+5000+2500+10000)/22)/8$

=281.25 taka

Man hour cost:

PM	400.56 taka
BA	315.34 taka
Developer	281.25 taka
QT	281.25 taka

Requirement specification & design:

Position	Man hour	cost	Total
PM	90	400.56	36,050
BA	120	315.24	37,829
		Total cost	73,879

Coding & testing:

Position	Man hour	cost	Total
PM	160	400.56	64,090
BA	125	315.24	39,405
Developer	2000	281.25	562,500
QT	1500	281.25	421,875
		Total cost	10,87,870

Total cost:

Requirement specification & design	=	73,879
Coding & testing	=	10, 87,870
<hr/>		
Total Cost	=	11, 61,749 Taka

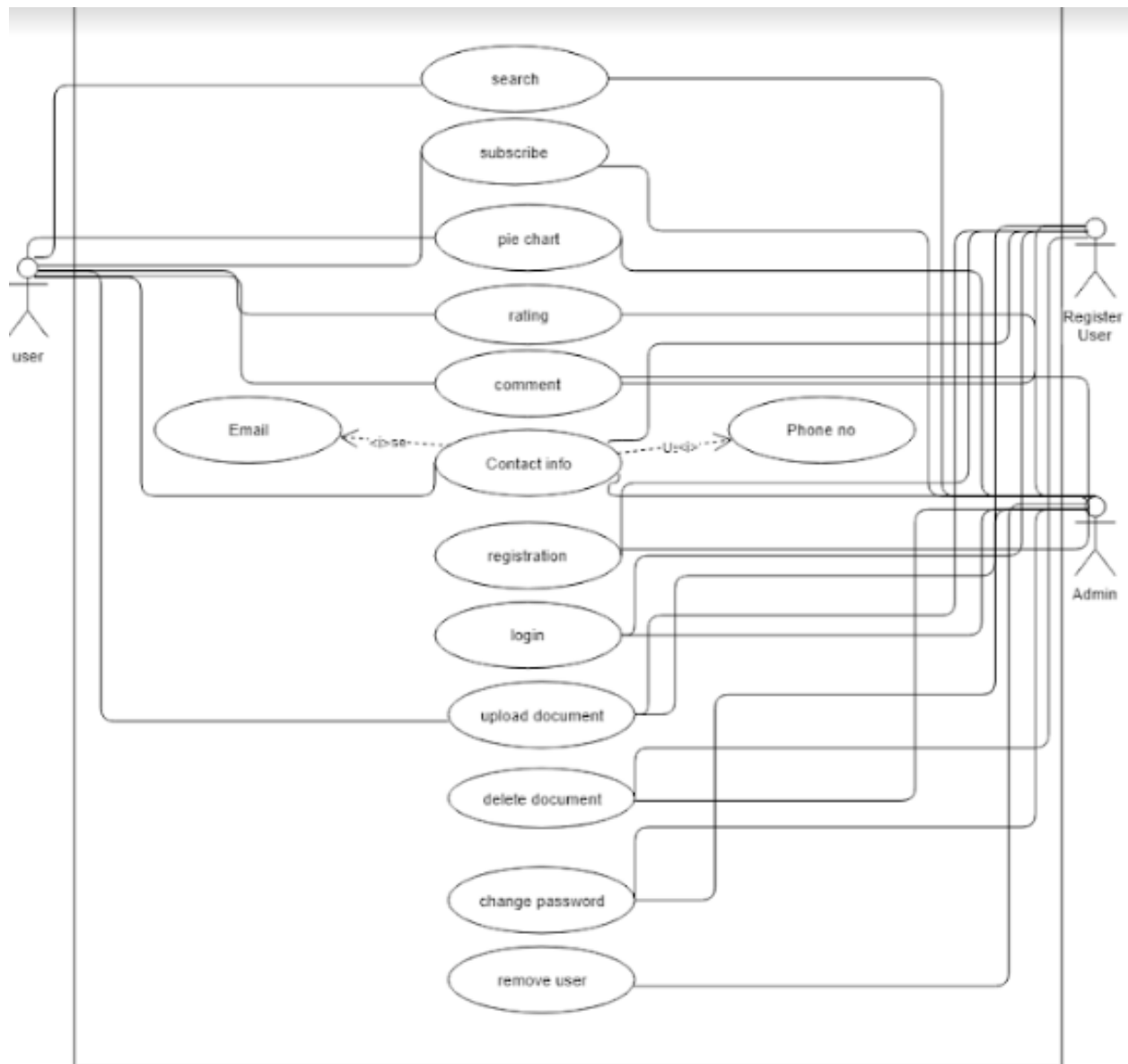
Description	Cost Assumption
Site launch (hosting)	48,000 BDT
Maintenance (1 year)	50,000 BDT
Developers	11,61,749BDT
Grand total	12,59,749 BDT

2.12 Conclusion

This Requirement Specification Document has been developed based upon by the studying common scenario and previous experience of the project manager. Thus any unusual circumstances rise on the process of development may derail the values and time frame mention in this document.

CHAPTER-3: DIAGRAM

3.1 Use Case Diagram



3.1.1 User Functionality:

The functionality of a user is as follows:

- Search a document
- Subscribe the application
- Like this document
- Comment this document
- Show the contact Information
- Show weekly pie chart and grant chart

3.1.2 Admin Functionality:

The functionality of an admin is as follows:

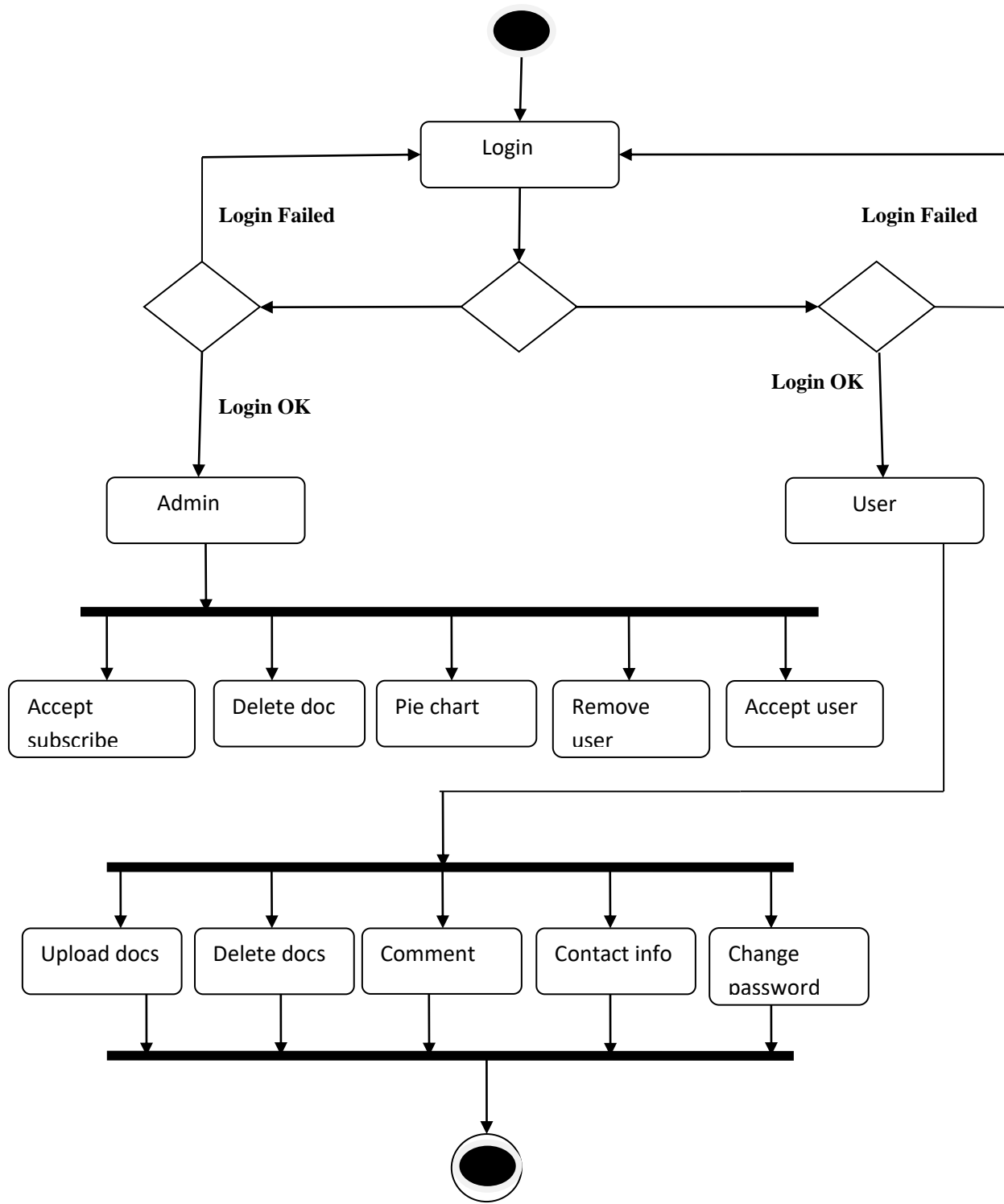
- Adding a new user
- Remove a user
- Delete a document
- Adding a subscriber
- Change user password
- Update pie chart and grant chart

3.1.3 Registered User Functionality:

The functionality of a register user is as follows:

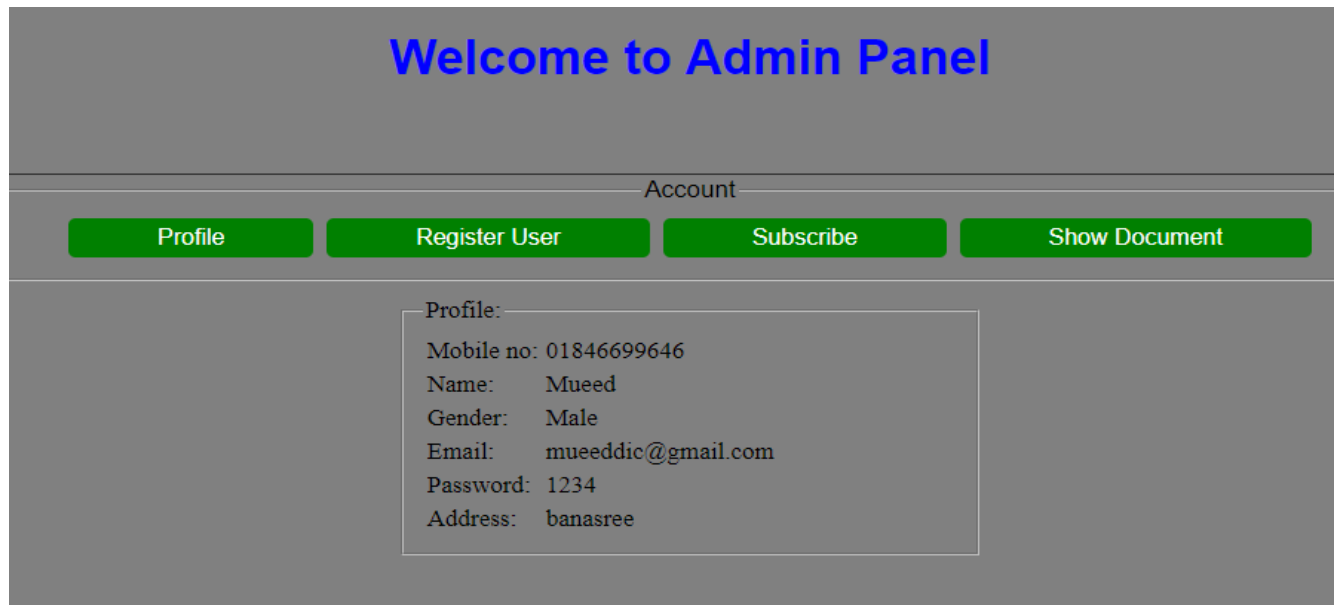
- Registration the application
- Login the application
- Upload a document
- Delete a document
- Reply the comment
- Change password
- Upload information

3.2 Activity Diagram



3.3 Prototype

Admin



The image shows a prototype of an Admin Panel. It features a dark gray background. At the top, the text "Welcome to Admin Panel" is displayed in a large, blue, sans-serif font. Below this, a horizontal line separates the header from the main content area. Underneath the line, the word "Account" is centered in a smaller, white, sans-serif font. Below "Account", there are four green rectangular buttons with white text, arranged horizontally: "Profile", "Register User", "Subscribe", and "Show Document". Below these buttons, a white-bordered box contains the text "Profile:" followed by a list of user details: "Mobile no: 01846699646", "Name: Mueed", "Gender: Male", "Email: mueeddic@gmail.com", "Password: 1234", and "Address: banasree".

Welcome to Admin Panel

Account

Profile Register User Subscribe Show Document

Profile:
Mobile no: 01846699646
Name: Mueed
Gender: Male
Email: mueeddic@gmail.com
Password: 1234
Address: banasree

Registered User

Profile

Post Upload

Category:

--Select--

Title:

Enter Title

Enter description

Choose File

 No file chosen

Upload

Delete

User

OnlineJournal

[Home](#)[Login](#)[Registration](#)[Admin](#)

Welcome to Online Journal

Category:

--Select--

search

likeReview

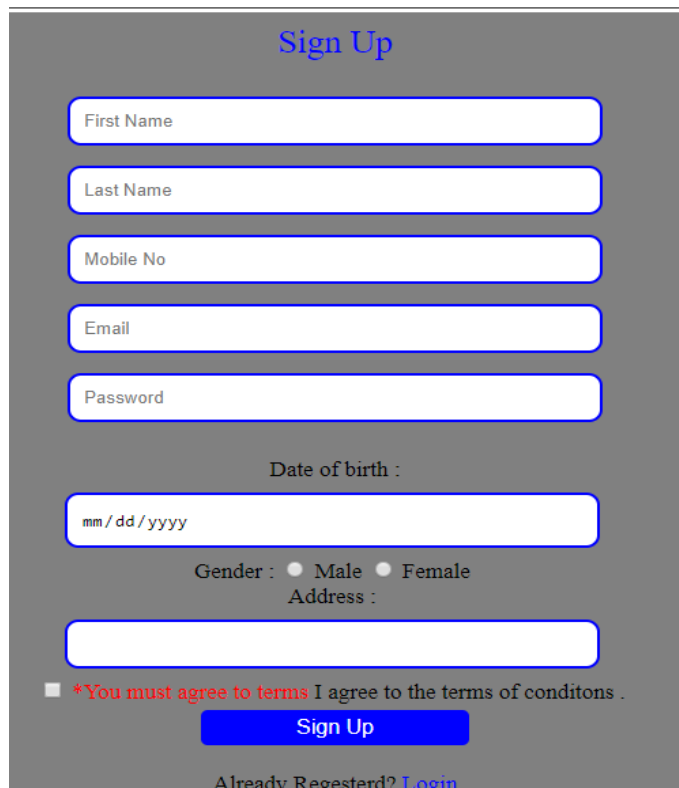


Login



The login form is titled "Login" in blue. It features the "Online Journal" logo, with "Online" in blue and "Journal" in black. Below the logo, the text "Online Journal" is repeated in orange. The form contains two input fields: "Enter your Email" and "Enter your Password", both with blue borders. A blue "Login" button is positioned below the password field. At the bottom, there are two links: "Forget [password?](#)" and "Create new account! [Sign Up](#)".

Signup



The sign up form is titled "Sign Up" in blue. It contains several input fields: "First Name", "Last Name", "Mobile No", "Email", and "Password", all with blue borders. Below these is a "Date of birth :" label followed by a date input field with the placeholder "mm / dd / yyyy". The "Gender :" section has two radio buttons for "Male" and "Female". Below that is an "Address :" label followed by a text input field. At the bottom, there is a checkbox with the text "*You must agree to terms I agree to the terms of conditons ." (note the typo in "conditions"). A blue "Sign Up" button is located below the checkbox. At the very bottom, the text "Already Regesterd? [Login](#)" is displayed, with "Regesterd" also containing a typo.

Chapter-4: Software Project Management Plan

4.1 Document History and Distribution

The development Online Journal is an online blog system where users can enjoy an online portal experience. Users can benefit from this service by saving valuable time.

4.1.1 Revision History

Revision #	Revision Date	Description of Change	Author
01		Primary Phage	
02		Yes	

These versions will show up there and also on its service work good.

4.1.2 Distribution

Recipient Name	Recipient Organization	Distribution Method
Abhijit Bhowmik	AIUB	Hard Copy, Soft Copy

Soft copy and Hard copy Distributed copy mention on the table.

4.2 Overview

Project Summary

4.2.1 Purpose, Objectives and Project Scope

The main objective of this document is to illustrate the requirements of the project **Online Journal**. The document gives the detailed description of the both functional and non-functional requirements for this system. The document is developed after a number of studying the requirement specifications paper of the given Project. The final product of the team will be meeting the requirements of this document.

4.2.2 Project Scope

- To development of **online blog** where Users will feel easy to work.
- This system makes the administrative work easy.

4.2.3 Assumptions and Constraints

The assumptions during the projects are-

- ⌚ The development team has not quite enough experience as a whole to complete the project.
- ⌚ Additional resources (people or money) are not available for the project.

4.3 Project Deliverables

4.3.1 The list of project deliverables is:

1. Statement of Work (SOW)
2. Software Requirements Specification (SRS)
3. Software Project Management plan (SPMP)
4. Software Design Plan (SDP)






4.3.2 Schedule and Budget Summary

SCHEDULE	
MILESTONE OR MAJOR PROJECT DELIVERABLE	PLANNED COMPLETION DATE(DAY)
SOW	3rd August, 2018
SRS	7 th August, 2018
SPMP	13 th August, 2018
SDP	25 th August, 2018
Soft testing plan	3 rd September, 2018
Presentation & project progress	5 th September, 2018
Technical documentation	With completed product
Software evaluation report	Along with final submission

4.4 Evolution of the Software Project Management Plan

The preliminary drafts of the SPMP will be submitted to the project manager and after approval; copies of the same will be distributed to the members of the group on the date as referred to in section 1.1.4.

4.4.1 Definitions

Terms	Description
 SOW	Statement of Work
 SRS	Software Requirement Specification
 SPMP	Software Project Management Plan
 SDP	Software Design Plan
 SQATP	Software Quality Assurance and Testing Plan
1. Impact	1-catastrophic 2-critical 3-marginal 4-negligible

4.5 Project Organization

Project organization depends on three major Structures

4.5.1 External Interfaces

The blog customer relationship will be responsible for formal interaction between the developer's team and the customer contact. Necessary interaction will be done through anyone on the team, but all discussions with the customer will be documented clearly for record. All customer requests for services or configuration item changes will be in writing and approved by the project's Configuration Control Board (CCB), which consists of all team members.

4.5.2 Internal Structure

There are four developers for this project. All members have specified areas of responsibility and everybody contributes equally to the project. Because there are only three members on the team, each member holds more than one role.

The team members will change roles throughout the life of the project, and each member will continue to have more than one role.

4.5.3 Roles and Responsibilities

The software developers are responsible for all documentation to be developed and also for all work to be done.

4.6 Managerial Process Plans

4.6.1 Project Start-up Plan

This section describes the materials and resources required to start the project. Because most of this information was pre-defined for the team, this section will not describe the rationale for many of these choices.

4.6.2 Estimation Plan

As previously stated in that, the total development time is estimated to be 1 yrs .These figures were obtained by expert judgment by analogy, that is, by comparison with similar projects.

4.6.3 Staffing Plan

Each team member will be available for 8 hours per day as the project purpose. This time includes the team and supervisor meetings, document preparation and inspection, and tool development.

4.6.4 Resource Acquisition Plan

- ⌚ All resources for the project will be available at the start of the project and will not change substantially over time. The technical writer will change after completing a documentation
- ⌚ The team member's roles will change according to project needs

4.6.5 Project Staff Training Plan

No additional staff training is needed for this project.

4.7 Work Plan

4.7.1 Budget Allocation

Budget Allocation		
	HOURS	COSTS
Agency Labor		
Contract Labor	N/A	0 BDT
Non-Labor Costs	N/A	0 BDT
TOTAL HOURS / IMPLEMENTATION COST		

4.8 Control Plan

4.8.1 Requirements Control Plan

When changes are to be made in the requirements after the Software Requirement Specification has been released, the changes shall be brought to the attention of the developers and discussed. Any changes that are to be made will be with the prior approval of the supervisor and only if feasible and permissible within the constraints of the project and resources in terms of knowledge and skill of the developers required. Once the changes have been made to the Software Requirement Specification document, an updated version of the Software Requirement Specification will be released.

4.8.2 Schedule Control Plan

If the work scheduled in section 1.1.4 is gets behind, the developer will be ready to spend extra time on the project in between and after the schedules to make up for the lost time and deliver the final project on time.

4.8.3 Budget Control Plan

Average monthly income will be determined by totaling all earnings for the year and dividing by 12. Average monthly spending will be generated by tracking all expenditures. "The difference between "Budget" and "Current Spending" will be the savings. If expenditure exceeds the income than steps may be follow to cut back on expenditures, depending on the specific savings goals. Expenses are monitored by the project manager, and reported and accessed via the Weekly Status Report.

4.8.4 Quality Control Plan

Any major changes that affect the milestones or the budget will have to be approved by all and documented. All will be responsible for ensuring that the project will be completed on time and within budget. This will be accomplished through daily meetings of the team members with the supervisor. At each meeting, developer team will present the day's progress and problems. All will determine whether they are progressing as expected and whether they are following the specification document and the project management plan. Any major problems faced by the team members will immediately be reported to all.

4.8.5 Reporting Plan

The updated Software Project Management Plan will be circulated as mentioned in schedule of section 1.1.4. Each of preliminary versions of all the documents and updates and status reports will be sent and discussed with the advisor and upon approval the approved document will be circulated to the other members of the team. The report on the status of the project will be sent to the members of the team.

4.8.6 Metrics Collection Plan

As the system based on object oriented so the metrics focus on measurement that can be applied to the class and the design characteristics—localization, encapsulation, information hiding, inheritance, and object abstraction techniques—that make the class unique.

4.9 Risk Management Plan

Risks	Probability	Impact	Rating	RMMM
Project Manager Availability	50%	3	Medium	R-1
Schedule slips	70%	1	High	R-2
System goes hour	60%	3	Medium	R-3
Project canceled	30%	4	Low	R-4
False feature rich	40%	2	Low	R-5
Frustrated programmers	80%	2	High	R-6
Staff Availability	60%	2	Medium	R-7
Customer Participation in Beta Testing	30%	3	Low	R-8

4.10 Closeout Plan

At the end of the project, the following actions will occur:

- The developers team will make a hard copy file of all documents, source code, plans, etc. generated by the team.
- The developers team will also copy of all material in electronic format on a CD-ROM.

4.11 Technical process plans

The Software Project Management Plan will specify the development process model, technical models, tools and techniques that will be used to develop the work products, project infrastructure and product acceptance plan.

4.12 Process Model

The XP (extreme Programming) agile process model will be follow during the project implementation.

4.13 Methods, Tools and Techniques

The project, E-Journal, adapts the system on Personal Computer using HTML, PHP, Visual Studio 2017 and MySQL for database management system. Additional tools that will be used are: Adobe Dreamweaver, Adobe Photoshop etc.

4.14 Infrastructure Plan

The hardware resources are three Intel Core2Duo Personal Computers running Windows XP/Vista or UBUNTU operating system. The project using software resources are like Notepad ++,sublime text 3, Adobe Dreamweaver, Adobe Photoshop, Adobe Flash, XAMPP, Wamp etc.

4.15 Product Acceptance Plan

Every milestone of the project will be accepted formally by the project manager by signing appropriate acceptance documentation. At the end of every phase the project manager will perform an acceptance test. This may result in additional requests for change and improvements. The project manager will test the final product/application for acceptance.

4.16 Supporting Process Plans

The Software Project Management Plan will include the plans for the supporting processes that are part of the software project. These plans include: configuration management plan, verification and validation, software documentation, quality assurance, reviews and audits, problem resolution and subcontractor management.

4.17 Configuration Management Plan

All the project deliverables are to be considered as configuration items. The configuration item as well as its file would be named after the document like SOW, SRS and followed by the version number. For example, all the preliminary versions that are submitted to the project manager for review would be named with the abbreviation followed by 0.1, 0.2. After the project manager approves the basic SPMP, this baseline document will be version 1.0 and is distributed to the project members. Informal updates with the project manager will be numbered with 1.1, 1.2, etc. and the next full distribution to the committee would be version 2.0, etc.

4.18 Verification and Validation Plan

The Software Project Management Plan for this project shall contain the verification and validation plan for the software project and it shall include tools, techniques and responsibilities for the verification and validation work activities. The verification and validation plan will be part of a separate document and will be maintained accordingly.

4.19 Documentation Plan

The IEEE standards would be followed for all documentation purposes. All the documents would be discussed and reviewed with project manager before their baseline versions are issued and distributed to the members of the committee on the due dates.

4.20 Quality Assurance Plan

The quality of our project will be maintained and checked by the project manager. He will assure that this project is maintaining the quality.

4.21 Reviews and Audits Plan

Review and Audits would be addressed as a part of the Software Quality Assurance and Verification & Validation Plan that would be developed following recommended departmental standards.

4.22 Problem Resolution Plan

All problems would be resolved informally the developer and the project manager. That is, there is no specific plan. But, The Software Project Management Plan will be updated accordingly should the need for such a plan arises.

4.23 Subcontractor Management Plans

The project does not have any plan for managing subcontractors that may contribute work products to the software project.

4.24 Process Improvement Plan

After the development, the project will be regularly checked by the project manager and he will suggest the developers if any kind of improvement is needed.

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