COVHAT

Tender Documentation
050917042

Covhat

conveniency, for everyone

Introduction

The software development document contains all preparations pertaining to the development of each unit or module, including the software, test cases, test results and any other items that will help to explain the functionality of the software. The document is dynamic and is maintained by the system development team and should he constantly updated as the system's development progresses.

Project Outline

1. **Project title**: A windows chatting application (*CovHat*).

2. **Project Objectives**
   - **Cost –** Reducing cost of data charges of old systems of communicating.
   - **Efficiency –** Getting more output of workers as workers find it easy to communicate and share idea via the application.
   - **Productivity –** Getting more output for a unit of input. Reducing the energy cost of workers/students.
   - **Process –** Improving business processes. For example, using a chatting application technique to reduce the downtime of a production line.
   - **Integrating –** Connecting workers/students and getting them to work together.
   - **Sustainability –** Reducing the impact of work/campus environment and improving the quality of life of communities.

3. **Project Background**
   There are many institutions and organization sharing the same WIFI connection. This application is specifically designed for users of such institutions and organizations to connect and communicate directly.

4. **Project Description**
   This project will develop a windows chatting application that can be accessed using personal log in details like *username and password*. Users access the application welcome interface and has two access buttons which are *Log in (Users already with account) and Sign up (Registration for users without account)* for security purposes. Users are then introduced to the chatting interface.
   The chatting interface requires users Internet Protocol and Port to the network, and Guest Internet Protocol and Port to the network. Connecting can then be made between two computers and users can communicate using the text field and the send button.

Skills Matrix

Capabilities	Bekoe Isaac		Emmanuel Twumasi Sarfoh		Richie	
	Proficiency	Interest	Proficiency	Interest	Proficiency	Interest
Technical writing	2	1	3	0	3	0
Graphic design	3	1	1	1	2	1
Legal research	2	0	3	1	2	0
Data Analytics	2	1	2	0	3	1
Questionnaire design	2	1	2	1	3	0

Proficiency level

0 = No capability

1 = Basic level

2 = Intermediate level

3 = Advanced level

Interest

0 = Has no interest in applying this capability

1 = Is interested in applying this capability

Project Plan

Covhat Project plan

	Task 7	Task 6	Task 5	Task 4	Task 3	Task 2	Tas 1
Start Date	12-Jan	06-Jan	01-Jan	26-Dec	22-Dec	17-Dec	14-Dec
■ Days to complete	5	6	5	6	4	5	3
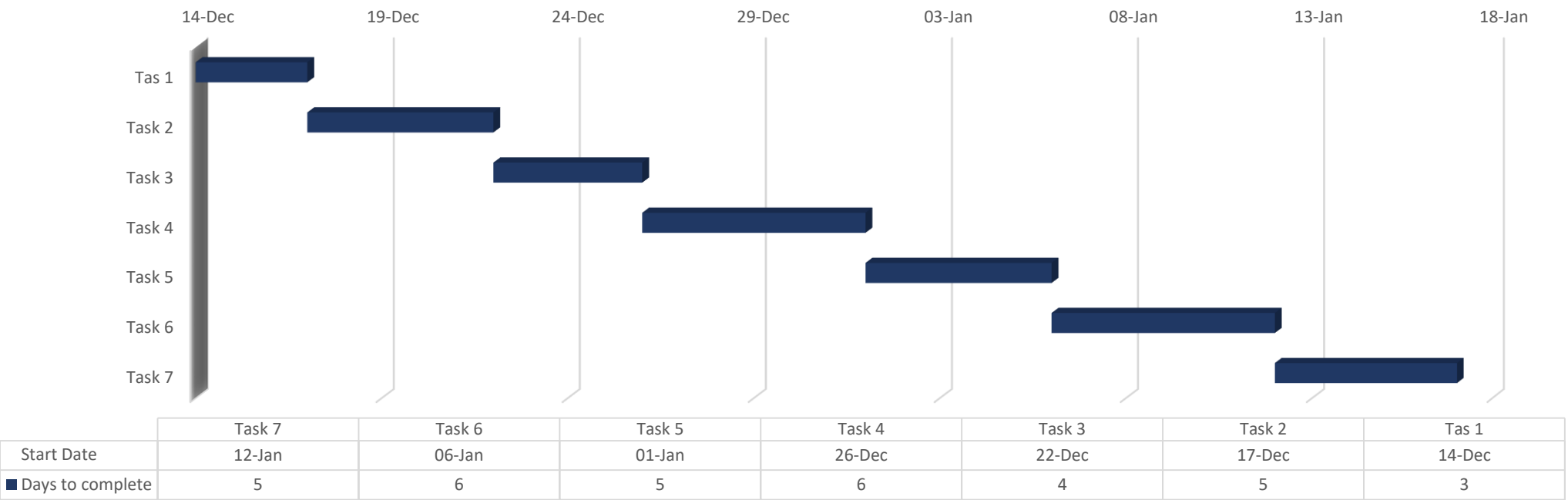
Task	Application logic layer step
Task 1	Step 1
Task 2	Step 2
Task 3	Step 3
Task 4	Step 4
Task 5	Step 5
Task 6	Step 6
Task 7	Step 7

A project costing

Task	Description	Start Date	End Date	Labour		Materials			Budget		
				Hour	¢/Hour	Travel	Network	Space/Office	Estimate	Actual	Balance
Task 1	**Login** and **Signup** option of the user.	14-Dec	17-Dec	12	¢ 40	¢ 85	¢ 20	¢ 25	¢ 700	¢ 610	¢ 90
Task 2	A condition for login option	17-Dec	22-Dec	12	¢ 40	¢ 15	¢ 20	¢ 25	¢ 650	¢ 540	¢ 110
Task 3	A condition for signup option	22-Dec	26-Dec	8	¢ 60	¢ 25	¢ 30	¢ 25	¢ 600	¢ 560	¢ 40
Task 4	Generate local IP of the user's computer	26-Dec	01-Jan	7	¢ 55	¢ 35	¢ 20	¢ 25	¢ 600	¢ 465	¢ 135
Task 5	Message call back from the Guest	01-Jan	06-Jan	8	¢ 60	¢ 12	¢ 20	¢ 25	¢ 700	¢ 537	¢ 163
Task 6	connecting the two IP addresses	06-Jan	12-Jan	14	¢ 25	¢ 70	¢ 20	¢ 25	¢ 700	¢ 465	¢ 235
Task 7	Enabling of the send button	12-Jan	17-Jan	20	¢ 20	¢ 60	¢ 70	¢ 25	¢ 750	¢ 555	¢ 145
SUBTOTAL				81	¢ 300	¢ 302	¢ 200	¢ 175	¢ 4700	¢ 3732	¢ 918

A Risk Analysis Matrix

REF/ID	RISK DESCRIPTION	RISK SEVERITY	RISK LIKELIHOOD	USER IMPACT	TRIGGER	MITIGATION/WARNING
Signup password mismatch.	A registering user might incorrectly type a different re-write password.	TOLERABLE	PROBABLE	LOW	Sign up password mismatch.	Prompt user to re-write password.
Incorrect Log in details	A registered user might type wrong log in detail.	TOLERABLE	POSSIBLE	LOW	Wrong Log in detail.	Prompt user to retype log in details.
IP and Port connection	Wrong socket connection	UNDESIRABLE	PROBABLE	MEDIUM	Wrong/No port receiver.	Prompt user an existing connection was forcibly closed by remote host.
Empty message	User sending an empty message	INTOLERABLE	IMPROBABLE	HIGH	Clicking the send button whiles text message text field is empty.	No message is sent.

IMPROBABLE RISK IS UNLIKELY TO OCCUR	LOW – 1 –	MEDIUM – 4 –	MEDIUM – 6 –	HIGH – 10 –
POSSIBLE RISK WILL LIKELY OCCUR	LOW – 2 –	MEDIUM – 5 –	HIGH – 8 –	EXTREME – 11 –
PROBABLE RISK WILL OCCUR	MEDIUM – 3 –	HIGH – 7 –	HIGH – 9 –	EXTREME – 12 –

SEVERITY

ACCEPTABLE	TOLERABLE	UNDESIRABLE	INTOLERABLE
LITTLE TO NO EFFECT ON EVENT	EFFECTS ARE FELT, BUT NOT CRITICAL TO OUTCOME	SERIOUS IMPACT TO THE COURSE OF ACTION AND OUTCOME	COULD RESULT IN DISASTER

An Ethical assessment

NHS
National Research Ethics Service

Application Process Flowchart

Legend
Process for obtaining ethical approval
Site-specific assessment for non-NHS sites
R&D Permission for NHS sites
Proportionate Review

Develop your study idea
- Guidance from NHS R&D

- Is my project research?

- Requirements for Ethical Approval

Ensure any external funding is agreed in principle before submitting REC and R&D applications.

For **non-NHS** sites only: Does your study require site-specific assessment?
- Requirements for site-specific assessment
- Guidance on SSA exemption
- How to apply for SSA

If yes complete the non-NHS SSI form in IRAS.

- Submit non-NHS SSI form to local (or specific) REC for review

Complete IRAS form and develop supporting documentation
- IRAS web site
- Participant Information Sheets and Consent Forms

What other approval do I need as well or instead?
- Contact your Trust
- Other Approvals
- MHRA

All research involving NHS research sites requires permission for research for each site.
NHS R&D Forum

If you consider your study presents no material ethical issues, it may be eligible for review under the proportionate review service
- Proportionate Review

- Book in your Application
via either the
- Central Allocation System
- Local Allocation Service
Submit your application and supporting documentation to the REC allocated to review your study within 4 days of booking.

Applications deemed invalid may be modified and rebooked.

REC coordinator validates application within 5 working days of receipt. Validation will be confirmed by letter. **60 day clock starts** from when a valid application is received.

If your application I deemed not valid but outstanding information appears relatively straightforward, the Coordinator may contact you and request outstanding information before it can be validated.

You will be invited to attend the REC meeting.

Submit outstanding information to REC

The REC is committed to returning an opinion within **60 days** of receipt of a Valid application.

Application reviewed by main REC and the decision of the REC is advised by letter.

No opinion - REC seeks advice from a specialist referee. *60 day clock does not stop while waiting for advice.*

Not requiring review by NHS REC

Provisional Opinion - further information requested *(clock stops whilst awaiting further info)*

Submit further information for review as requested *(clock restarts when further info received by REC)*

Unfavourable Opinion

Favourable Opinion with Conditions

If your response to the REC is incomplete, you may be asked to supply a more detailed response to the initial request for further information but no new issues may be raised by the REC at this stage

Modify application and resubmit

- Appeal

Favourable Opinion