Faculty of Engineering and Applied Science

SOFE 3490U Software Project Management

Group 15

<u>Lab 4</u>

Group Member 1

      Name: Sohaib Mohiuddin

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Group Member 2

      Name: Umar Riaz

      Student ID: 100600032

Group Member 3

      Name: Bhavik Panchal

      Student ID: 100591777

Deadline: March 24, 2020

Risks & Countermeasures

1. Unfinished Product
    - If there are delays during the production of the project, the project may not be complete by the set release date. A delay can refer to many things such as workers missing work time due to an illness or tragedy, The countermeasure for this risk would be to spend more money initially and hire extra workers to increase productivity and therefore if a worker was to miss some time, it would not affect the projects release date as the work done by the extra workers would cover for the missed work.
2. Customer Dissatisfaction
    - After the project is released, there could be a few customers that are not satisfied with the final result. The countermeasure for this risk would be to hold a pre-release conference for the project where customers will be able to interact with a prototype of the project. This will allow for customer feedback to ensure that the customers will be satisfied with the final project.
3. Copyright Issues
    - If music is added to the music hub without permission of the production company who created that music, there can be lawsuits against our company. The countermeasure for this risk would be to reach out to all the most popular production companies, and receive permission to display their music on our music hub. We will also have a team monitoring all submissions before they are displayed to the music hub. This will allow us to assure no music that is not able to be played on our website due to copyright issues, will remain off the music hub.

Project Resources

Current Employees	New Employees
Sohaib Mohiuddin - Developer	Ron Weasley - Business Analyst
Umar Riaz - Business Analyst / Developer	Harry Potter - IT
Bhavik Panchal - Business Analyst / Developer	Harmione Granger - IT
	Draco Malfoy - IT
	Snape - QA
	Albus Dumbledore - QA

6 Teams	
Recruitment Team	Sohaib Mohiuddin, Umar Riaz
Business Analyst Team	Bhavik Panchal, Ron Weasley
Development Team	Sohaib Mohiuddin, Umar Riaz, Bhavik Panchal
IT Security Team	Harry Potter, Harmione Granger, Draco Malfoy
Quality Assurance Team	Snape, Albus Dumbledore
Deployment Team	Harmione Granger, Draco Malfoy

The responsibilities and requirements of these teams are as follows:

1. Recruitment Team: This team is responsible for recruiting the necessary employees needed to efficiently complete the Music Hub.
2. Business Analyst Team: This team is responsible for gathering the necessary requirements, use cases and design documents. They are also responsible for finding the best technologies suited for successfully building Music Hub.
3. Development Team: This team is responsible for taking the requirements and design documents given by the BA's and translating those into a working software.
4. IT Security Team: This team is responsible for security of the application as well as cloud and DataBase services (AWS and Apache Cassandra). They keep the system safe from injections of other harmful attacks to the system.
5. Quality Assurance Team: This team is responsible for testing the capabilities of the system, individual components and quality.
6. Deployment Team: This team is responsible for deploying the application to production given all necessary requirements have been fulfilled as well as tested.

Resource Allocation

	Task Mode	Task Name	Duration	Start	Finish	Pred	Resource Names
		▷ Planning and Design Phase	**5 days**	**Mon 20-02-03**	**Fri 20-02-07**		**Bhavik Panchal,Ron Weasley**
▥		Hardware Installation	2 days	Mon 20-02-10	Tue 20-02-11	2	Umar Riaz,Sohaib Mohiuddin
		◢ Software Development	**28 days**	**Thu 20-02-13**	**Tue 20-03-24**		**Bhavik Panchal,Sohaib Mohiuddin,Umar Riaz**
▥		Increment 1	7 days	Thu 20-02-13	Mon 20-02-24		
▥		Increment 2	7 days	Tue 20-02-25	Wed 20-03-04	7	
		Increment 3	7 days	Thu 20-03-05	Fri 20-03-13	8	
▥		Increment 4	7 days	Mon 20-03-16	Tue 20-03-24	9	
		◢ Security	**15 days**	**Wed 20-03-25**	**Tue 20-04-14**	**3,6**	**Draco Malfoy,Harry Potter,Hermione Granger**
		Recruit Security	5 days	Wed 20-03-25	Tue 20-03-31		Sohaib Mohiuddin,Umar Riaz
		Train Security/Copyright Issues	10 days	Wed 20-04-01	Tue 20-04-14	12	
		User Acceptance Testing/Pre-release Conference	2 days	Wed 20-04-15	Thu 20-04-16	11	Albus Dumbledore,Snape
		Environment Testing	2 days	Fri 20-04-17	Mon 20-04-20	14	Albus Dumbledore,Snape
		Rollout	1 day	Tue 20-04-21	Tue 20-04-21	15	Draco Malfoy,Hermione Granger

Gantt Chart