CSE 4408

System Analysis and Design Lab

Lab 3

A report on

Project Management

Presented By

Three_SAD_Guys

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1. Problem Definition and Project Selection Justification

1.1. Problem definition: No centralized communication channel and workflow management tool for IUT computer society

1.2.Key issues:

- Miscommunication
- Loss of productivity
- Slower task completion
- Managerial bottleneck

1.3.Project objectives:

- Increased productivity
- Faster task completion
- Smoother communication
- Member retention
- Task feedback
- Opportunities for data analytics

1.4.High level requirements:

- Account registration
- Task distribution system
- Real time chat system
- Feedback mechanism

1.5.Constraints:

- Budget
- User acceptance
- Scalibility

1.6.Justification:

1. Management backing: Welcomed by IUTCS members
2. Appropriate timing: Increasing activities of IUTCS demands a better system
3. Strategic goal alignment:
    - Boosts organizational efficiency
    - Eases students mental pressure
4. Practicality:
    - Technically feasible and maintainable
    - Can be deployed initially as MVP and then scaled up
5. Worthwhile investment: relatively low cost

2.Preliminary feasibility assessment

2.1. Technical feasibility:

1. Technological availability: Development frameworks, databases and authentication tools readily available
2. Skill and infrastructure availability:
    - Capable development team
    - MVP can be deployed on cloud hosting providers, and then can be scaled using pay-per-use basis cloud servers
3. Potential obstacles:
    - Real time chat system
    - User data privacy
    - Testing
4. Hardware vs cloud:
    - Cloud servers because of inbuilt optimizations
    - scalability
    - Community support
5. Anticipated deployment challenges:
    - Continual support
    - Fault tolerance
    - Device compatibility

   Conclusion: Technically feasible

2.2. Economic feasibility:

1. Tangible benefits:
    - Centralized platform
    - Time saved
    - Reduces paper dependency
    - Can be scaled to other institutes
    - Can be turned into a full fledges SaaS business
2. Tangible costs:
    - Development time
    - Software subscriptions
    - Testing and maintenance
    - Handling increased user activity

   Conclusion: Economically feasible

2.3. Operational feasibility:

1. High user acceptance
2. Easy workflow integration
3. Minimal training

   Conclusion: Operationally feasible

3. Outline of costs and benefits

1. Tangible benefits:
    - Centralized platform
    - Time saved
    - Reduces paper dependency
    - Can be scaled to other institutes
    - Can be turned into a full fledges SaaS business
2. Tangible costs:
    - Development time
    - Software subscriptions
    - Testing and maintenance
    - Handling increased user activity
3. Intangible benefits:
    - Improved motivation for work
    - Improved member trust
    - Opportunities to reflect and prosper
4. Intangible costs:
    - Data Privacy
    - Low user adoption

4. High level budget

Category	**Cost**	**Subtotal**
Development	BDT 18000 - 20000	BDT 18000 - 20000
Hardware	*BDT 2000 - 2500	*BDT 2000 - 2500
Software	*BDT 2000 - 2500	*BDT 2000 - 2500
Training	BDT 0	BDT 0
Maintenance	*BDT 3000	*BDT 3000
**Recurring*	**Total**	**BDT 25000 - 28000**

Table 1: High level budget