

STRP II - Designing an Adaptive Learning Algorithm for Standardized Test Preparation

Meeting Minutes

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Supervisor: Dr.Waqar Saleem

Contents

1 Week 1 1

1.1 Meeting #1: June 8 1

2 Week 2 2

2.1 Meeting #2: June 14 2

3 Week 3 3

3.1 Meeting #3: June 20 3

1 Week 1

1.1 Meeting #1: June 8

Type of Meeting:

Group

Names of Meeting Attendees:

Muneeb Shafique

Anosha Fazli

Meeting Agenda:

- Project Overview
 - Provide a detailed overview of the research project, including its objectives, scope, and significance.
 - Highlight preliminary work done (literature review) & ideas developed.
- Discuss deliverables of the research project.
- Determine the frequency of progress updates that our supervisor prefers.
- Present and review the proposed timeline for the research project, including major milestones and deadlines.
- Ensure the supervisor shares the same understanding of what needs to be achieved as us.

Points Discussed:

1. Tasks required to complete research in 10 weeks.
2. Sequence of tasks to be carried out
3. Dependency of Tasks
4. Project Deliverables
5. Motivation behind choosing the specific problem.

Feedback from Supervisor:

- Interesting Problem.
- Seems doable.

Action Items:

1. Continue with literature Review: Look into techniques used to develop existing adaptive learning systems
2. Begin finding and tagging questions.

2 Week 2

2.1 Meeting #2: June 14

Type of Meeting:

Group

Names of Meeting Attendees:

Muneeb Shafique

Anosha Fazli

Meeting Agenda:

- Discuss approaches found by reading the literature.
 - Components required for an ITS
 - Approaches for the Pedagogical and Student Model
- Number of questions for every topic
- Should we finalize the approach for every module or begin coding one module at a time?

Points Discussed:

1. Representation of Knowledge Base.
2. Integrating Database.
3. Integrating the effect of guessing, missed questions.
4. Approaches used for the pedagogical module
5. Different components of the ITS (intelligent tutoring system)
6. Number of questions for each difficulty level in every topic.

Feedback from Supervisor:

- Work on Pictorial representation of step required to solve the problem
- Structure of presentation (improve)

Action Items:

1. Develop forest (Topic Map)
2. Decide & setup Database.
3. Finalize approach used in the Pedagogical module.

3 Week 3

3.1 Meeting #3: June 20

Type of Meeting:

Group

Names of Meeting Attendees:

Muneeb Shafique

Anosha Fazli

Meeting Agenda:

- Discuss approaches found by reading the literature.
 - Approaches for the Pedagogical Module
 - Approaches for the Student Model
- Receive feedback on the completed knowledge base.
- Discuss other factors involved in developing an adaptive learning system.
- Show Task dependency graph
- Show Framework chart.

Points Discussed:

1. Knowledge Base (limiting to 1 sub-topic for every Topic)
2. Approaches used for the pedagogical module.
3. Approaches used for the Student model.
4. Factors involved in developing an adaptive learning system.

Feedback from Supervisor:

- Progress is satisfactory (on track)

Action Items:

1. Begin coding the Paper Generation Module.
2. Adjust framework diagram
3. Look into CATsim.