CS455: Introduction to Software Engineering

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AcQuora -'coz learning can be fun

- Interactive learning app
- Beneficial for
 - children-self directed play,
 - children with special needs,
 - > parents
 - people preparing for competitive exams
- Quiz based learning, involving levels & credits.
- Has social media integration, can share scores among friends, seek rewards.

What if I don't know the answers?



Am I stuck, If I don't know the answer?

- Don't worry. You will gain credits over time (but not infinite credits).
- Minimum number of credits required to continue with the game.

Features

- Also, we have sound functionality for people having visual disability.
- Internet connectivity NOT required to run the app.
- Privacy Issues: Need not use Facebook/Google mail for authentication.
- Penalty, increases with every wrong attempt per question.
- Minimalistic permissions asked from the user.
- Can set a timer to measure one's performance for self evaluation.
- No server downtime issues.

4+1 Architecture view

4+1 Architecture

LOGICAL VIEW

DEVELOPMENT VIEW

USER CASE VIEW

PROCESS VIEW

PHYSICAL VIEW

User Case View

Child User

Academic Importance

Help In Studies

Questions on Course Related Topics

Self Assessment Personality Development

> Questions on General Topics

Good Use of Time

Learning with Fun

Involving and Interactive

Social Interaction

Connects With Facebook

Healthy Competition with Friends

User with Visual Disability

Sound Interface

Questions and Options are Recited

To Pass Time

Good Use of Time

Helpful in Studies

Learn in an Easier Way

Makes Learning possible despite Disability

Overcome Social Stigma

As a Parent

Growth of Child

Questions based on Child's Syllabus

Assessing the Child's performance

Make Learning Fun

Better Use of Child's Time

Involving the child

Safe Content Only

Person with Specific Requirements

Specificity

Question Pattern on Specific Exam

Level of Questions Should Match the Exams

Self Assessment

Timer for Improving Speed

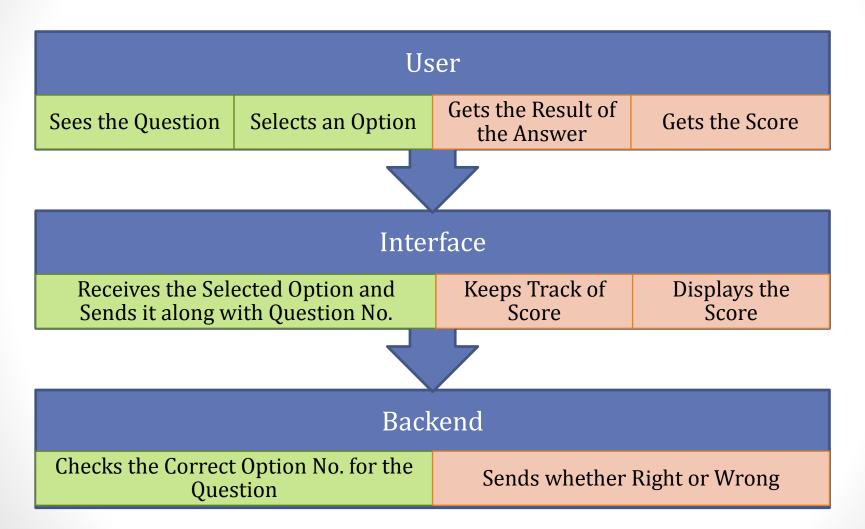
Cut-Offs for Levels

Competition with Peers

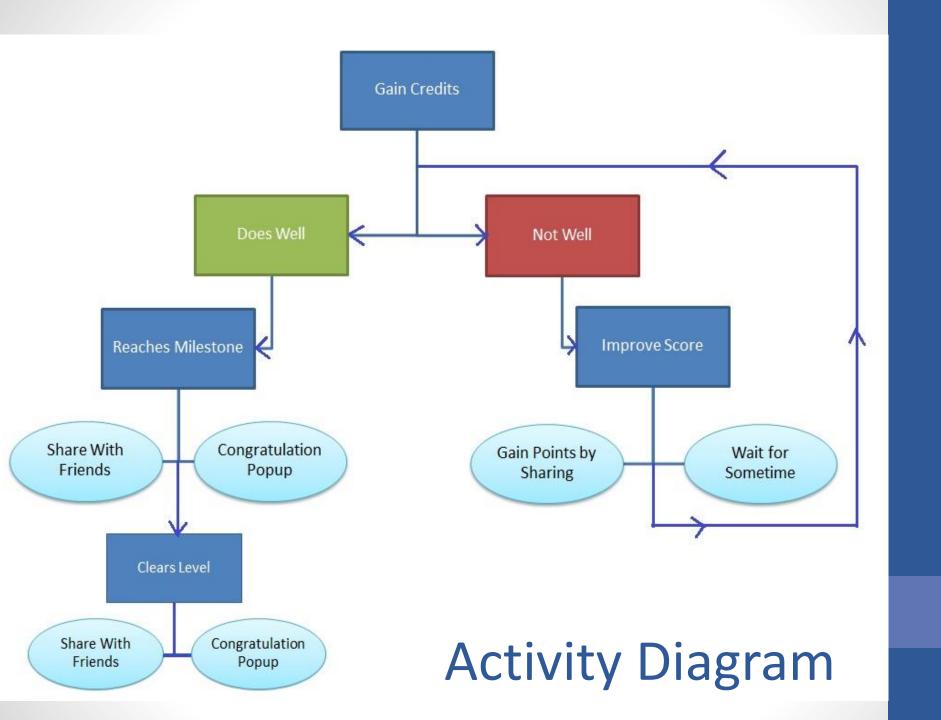
Connection with Social Media

Logical View

Sequence Diagram



Process View



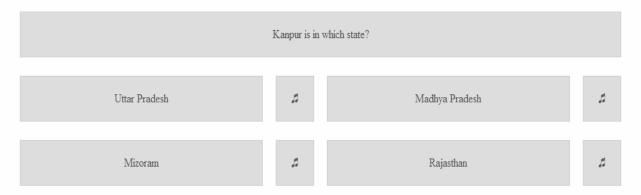
Future Potential

- Interested Parties:
 - Can be used by educational businesses to give supplementary reading material and gain insights.
 - Can be used by teachers to give learning assignments.
- Web interface to upload question dataset and get the app.(Scalable)
- Hydrated apps-No need to download newer versions.
- Working across platforms.
- Involving multimedia based questions.
- Give analytics using third party API's.

Some Snapshots

Main Page

Logical Reasoning



Score: 2160

Level: 1

Settings Page

AcQuora

Learning With Fun

| Enable Sound |
|---------------|
| ○ Yes ○ No |
| |
| Enable timer |
| ○ Yes |
| ○ No |