Domain Analysis

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Software Domain

Desktop application

Subdomain: Educational video game for children K-12

- Knowledge of Domain
- An Educational video game provides learning value to its player via a video game format
- Children engage with video game format more than all other kinds of formats
- Educational video games play a significant role in the school curriculum for teachers who seek to deliver core lessons, reading and new skills.

Common Issues

- Difficult for instructors to incorporate the game into an already-structured curriculum
- Java runtime is required to run .jar files
- The need to quantify student performances through in-game objectives
- Feature creep
- Difference in developers' design philosophy slows down development

Common solutions

- Use third-party tools to convert .jar to .exe so that the finished product can run on Windows

Methods to accelerate development

- Construct a list ranked from most urgent to least urgent tasks