What is iPedago?

The objective of the iPedago product is to provide students, or learners of any kind, with a “support system” that accelerates learning. The conceptual underpinning of the software is built on two levels of learning, each represented by the following acronyms:

- Learning Level 1: A.B.O.D.E
  - Assemble
  - Build
  - Organize
  - Decode
  - Expand

- Learning Level 2: S.Q.U.A.R.E
  - Survey
  - Question
  - Answer
  - Rehearse
  - Expand

Our Process Methodology

- Incremental + Iterative (Agile)
  - Sponsor gets a sense of the product early on and can provide useful feedback and insight
  - Testing & debugging are more targeted and effective, opposed to testing everything at once
  - We have the flexibility to add, change, or remove requirements due to isolated feature sets, which are re-evaluated after each iteration cycle

Features + Interface Design

- Content Management & Organization
  Create an unlimited number of projects based on subjects you would like to learn. Map concepts in a hierarchical manner, creating a virtual tree of subject nodes and sub-nodes.

- Learning to Play
  Stay on top of important concepts or ideas by emphasizing text visually. Assign tags and priority to categorize your highlights, making them easily searchable later on.

- Bookmarks
  Navigate to key sections or headlines from wherever you are in the project.

- Personalized Glossary of Terms
  Never forget the definition to a word again; add pop-up definitions and build a glossary of terms with ease.

- Create Your Own Quizzes
  Build a set of questions (True or False, Multiple Choice, Fill in the Blank) then activate customized self-quizzing.

System Architecture

- Users
  - HTML View
  - JavaScript Controllers
  - HTTP/JSON

- Server
  - Routes
  - Controllers
  - Models/Entities
  - Persistence

- Database
  - Security/Encryption
  - Web Server/Deployment
  - Logging/Error Handling

Usability + Heuristicus Evaluations

- We observed 20 students using the product. The users had time to explore the app, were told to perform some tasks, and then filled out a short survey at the end sharing thoughts and ideas.

Plans for the Future

- Server-side caching for scalability
- Quizuing on mobile devices
- Exporting projects and summary sheets
- Project collaboration and sharing
- Shopping for premium projects (Marketplace)
- Social media integration + user reviews

Frontend: HTML5 | CSS3 | jQuery | Bootstrap | Underscore

Backend: Play Framework | MySQL | Hibernate | Tomcat

Documentation Hosted By: Google docs