

15637 F15 Team Project Proposal

Team name: Chingoal (No. 158)

Team members:

Jingwen Qiang (Andrew ID: jqiang) Section D

Ning Wang(Andrew ID:ningw) Section D

Mingda Zhang (Andrew ID: mingdaz) Section B

Jian Gong(Andrew ID: jgong1) Section D

Project Description

In America, more and more people are trying to learn a second language, especially Chinese. To help them learn Chinese conveniently and efficiently, we are going to develop an online Chinese learning platform named “Chingoal”. Learning with Chingo is fun and addictive. Earn points for correct answers, race against the clock, and level up. Our bite-sized lessons are effective. With the help of Chingo, users can learn Chinese in a systematic way. They will choose a suitable starting level and then finish all lessons of the level. Then, they will test themselves by doing online quiz. Finally, they may do homeworks to review what they have learned. Meanwhile, we have platforms for question post and online teachers for answering all questions.

Detailed Features

- Learn Chinese in different ways, such as watching videos, listening audios, reading Chinese articles, doing quiz online and homeworks.
- Provide different learning levels. Users may start with a suitable level based on their background and then continue with the rest of learning chapters.
- Instant discussion with online teachers to get answers to your own questions.
- Post questions in discussion area and provide answers for other learners questions.
- User can register as a student or as a teacher. Different users have different operation rules.
- Teacher user can post new learning materials including videos, audios, Chinese articles, online quiz and homeworks.

Technology

- For now Django is the most likely choice. The site will heavily rely on LESS and jQuery, as well as some other 3rd party Javascript libraries to achieve interactivity.
- We are now open to choices of both SQL(MySQL) and NoSQL(MongoDB) databases.
- AJAX: Based on the highly interactive nature of our proposed project, AJAX is an essential technique that may help us to achieve user interaction purposes.
- CSS3: Some HTML feature may be implemented by CSS3.
- Bootstrap:Bootstrap makes front-end web development faster and easier.
- JSON: JSON is a good way to pass intermediate data between server and browser, since an object is easy to be serialized into JSON at server-side and deserialized into an Object at browser-side.