Name	Contributions	Work Division
Shen Guan	**Implement the game Fruit + or - :** 1. realize game logic of fetching questions from question bank and check the correctness of choice 2. UI design in html and css, display question in form of apples in javascript 3. build model of Question, mathGame, AddSubstractionScore **Implement the game Animal Match Up** 1. realize game logic of randomly selecting 9 pictures from the backend and check whether the label matches the image 2. UI design in html, css, javascript 3. build model of image, ImageMatchingScore **Implement the scoreboard and mypage** 1. fetch score data from backend and rank the scores 2. UI design in html and css Implement the login and registration module UI design of main page	33.33333333333 %
Yuheng Wang	**Implement the Video Zone, which includes:** 1. video search according to keyword 2. video search according to the category 3. sort the video list by reviews, count number and relevance 4. recommend other related videos and display the video playlist 5. stream embedded video without jumping to youtube website **Implement serveral function in Game Word Snake:** 1. Implement the function of shuffle, repeat game and timer 2. Implement the score calculation according to the valid word length and bonus position 3. UI Design in html, css	33.33333333333 %
Zheng Wang	**Implement the Book Zone, which includes:** 1. book upload. 2. book recommendation for levels and categories. 3. book sort by level and category. 4. book display in both online mode and PDF format. 5. Integrate with google book api using Javascript for searching interesting books using keywords and sort by book title, author and year of publishment . **Implement serveral functions in Game Word Snake:** 1. Use wordnet (natural language package) to search and extract word definition for users' words.' 2. Integrate Flicker API for searching a picture realted with the keyword.	33.33333333333 %

	3. UI Design in html, css	