· The webpage is based on node.js on the backend and HTML5 on the front end.

· The code must be written in a basic and simple style that can be modifiable with ease later.

· On the homepage

  -. the problem categories are shown like "Fluid properties", "Fluid statics", …

  -. If one of the problem is clicked, it leads to a next page called "Problem List".

· On the "Problem List" page

  -. a list of problems in the categories are shown with information like area, difficulty, the first line of the problem, a serial.

  -. when one of the problems is selected, it leads a page called "Problem"

· On the "Problem" page

  -. a whole problem is shown. This can include jpg and/or pdf file and a link to a page that explains the concepts.

  -. The page also contains a button that leads to a page called "Level 1 answer" that presents the solution of a first level. The button must be activated when a time is passed after the page is entered.

· On the "Level 1 answer" page

  -. This page can include jpg and/or pdf file file and a link to a page that explains the concepts.

  -. The page also contains a button that leads to a page called "Level 2 answer" that presents the solution of a first level. The button must be activated when a time is passed after the page is entered.

· Likewise, the answer pages can go down to a maximum 5 levels with the same format.

· To be implemented further

1) Problems and concept pages are stored in DB. The problems in the home page are from DB and connections to the concept pages are to be selected and edited.

2) Problem DB consists of a) problem title b) short problem information (serial number, category1,2,3, difficulty) c) problem contents in pdf or jpg, and d) answers(level1~5)

3) User administration functions required

   a) page for signing up: id, name, passwd, e-mail, some notice

   b) setting the user level that sets user period, access level, access to answer level, access to problem level,

   c) way to store feedbacks from user (user info, problem serial, problem serial, good/difficult/soso, comment, answer level)

4) When the answer level goes up, the minimum time can be set with a comment "The answer of the next level will be shown in 20 min."