

# COMSM0104-Web Technologies Report

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## 1 Introduction

Our team is comprised of Kehan Du (mz19460) and Shunyi Zhao (vt19049). The aim of our project is to construct the PC end official website of Deep KW Innovation Factory.

Deep KW Innovation Factory is the academic workshop of interdisciplinary at Huazhong University of Science and Technology, China. Since the establishment of Deep KW Innovation Factory in 2017, it has always upheld and practiced the concepts and methods of interdisciplinary, and insisted on exploring the question of social sciences by using natural science methods.

The central goal of this version is to construct of the official website framework and the dynamic realization of key pages and complete the initial launch of the official website. This version is just used to practice the skills of web technologies, and will not be used commercially. We have got the permission to do this website, and the final report will declare the copyright.

## 2 Page Design

The home page of this project is shown below:

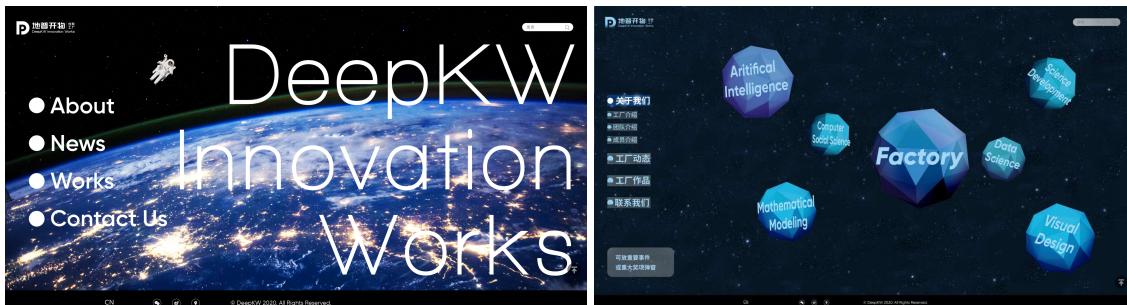


Figure 1: home page and about page

## 3 Technology Evaluation

### 3.1 Client Side

We chose a popular javascript framework, Vue.js (version 2.6.11), to develop these pages. Modularity and componentization are important features of Vue, allowing us to build complex applications with small, independent, and usually reusable components. And these components convenient for later maintenance and upgrade of the official website. We use webpack and npm manage the packages based on node.js, and information about these packages is shown in package.json. Works are placed in folder named `./src/components`. HTML, used as the template of every module, and CSS would control the layout and style of these modules.

Adobe Photoshop and Illustrator (Authorized) are used to design the blueprint of the website, and some .png file are created by them. Some icons, such as the logo of group, are drawn by SVG.

### **3.2 Sever Side**

The development of Sever is also in node.js. We might use Express as a server framework and Sqlite to manage databases. And the concept page shown before homepage will be displayed by a dynamic page.