

# COMSM0104-Web Technologies Report

Kehan Du, Shunyi Zhao

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## 1 Introduction

Our team is comprised of Kehan Du (mz19460) and Shunyi Zhao (vt19049). The aim of our project is constructing 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 each work we cite will be quoted exactly in the final submission.

## 2 Page Design

The home page of this project is shown below:

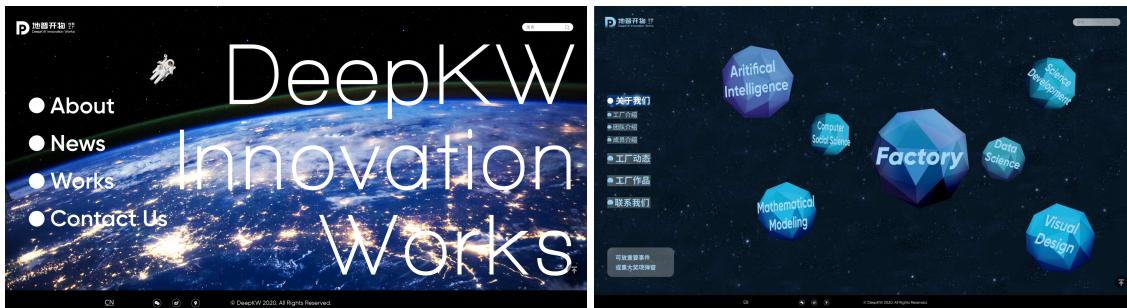


Figure 1: home page and about page

## 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 node.js and npm manage the packages, and information about these packages are shown in package.json. Works are placed in folder named `./src/components`. HTML are used as the template of every module, CSS statements 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**

Development of Sever is also in node.js. Express and Sqlite are used to control Database. And the concept page shown before homepage will be displayed by a dynamic page.