

# **Project : Demo Court**

## **Business Case & Draft Plan**

Group 13



### **1. Executive Summary**

The project we want to develop in this semester is Demo Court, which is a web application to help students with computer vision, robotic and deep learning background demonstrate project videos. And companies related to computer vision and deep learning can also put their recruitment information on it. The main purpose of developing this website is to hope that some talented students in this field can show their talents and professional skills on a platform to attract more employers' attention. At the same time, it can also help companies in this field to find the talent they need when recruiting.

### **2. An Introduction to Demo Court**

Demo court is a website that helps students demonstrate project demos. Our target users are students and companies with computer vision, robotic and deep learning background.

#### **2.1 The problem we want to address**

- a. Most students can only rely on their resumes and CV to find a job after graduating from university. But now many companies only value their GPA and work experience on their resumes. Therefore, for those graduates who have no work experience and excellent grade but have done some good projects, it is difficult for them to stand out from the job market through their resumes. And now there are no professional platforms that allow them to show their projects to attract employers' attention. They can only send their resumes to some recruitment sites, such as seek.
- b. It is hard for companies to find talented students they want, especially in the high-level industry, such as deep learning and computer vision. This is the reason why we focus on the computer vision, robotic and deep learning background.

#### **2.2 Solution**

We will develop a professional website named Demo Court for students and companies with computer vision, robotic and deep learning background. Students can show their abilities, programming and practical skills by demonstrating excellent videos on our website.

In this way, students can attract more companies attention in these industries. At the same time, companies can find the staff they want.

### **3. Main Functions**

#### **a. Uploading and Displaying project Demos**

Each User can upload their project demos to the Demo Court. They will have a personal page to store the project demos uploaded. At the same time, they can also edit their profile on the personal page.

#### **b. Companies can post employment information**

Companies in related industries can send their recruitment information to our website. In this way, students can directly contact the company that suits them.

#### **c. Ranking the project demos**

We will design an algorithm according to the click rate and the star numbers to rank the project demos on our website. We will select the most popular videos and put them on the homepage of the website.

#### **d. Sharing links to popular platforms**

Users can share their video links to other social media, such as Facebook and Twitter.

### **4. Future Extension**

- a. In the future, we can develop the Demo Court to a mobile application. The mobile app can be used in the popular mobile system, such as IOS and Android.
- b. We can add a test function on Demo Court in the future. Users can upload their code to our website, which can allow companies and other users to test the function of a project.
- c. In the future, Demo Court can cover other areas, such as website development and data analysis.
- d. We can design flexible algorithms to make video recommendations based on user needs, especially the company's needs.

# Draft Plan for Demo Court

## 1. Milestone 1

In the milestone1, we will finish two functions for Demo Court. In week 4 and week 5, we will finish the basic function of the demo court. The frontend will design the login page, register page, personal page and the function of signing in and signing out. At the same time, the backend will design the router, handle data from the frontend and certificate the user information. [REDACTED] will design the database for users and test the function. In week 5 and week 6, we will finish the development of the second function of our web application, which is uploading and posting videos. The frontend will design the main page and video upload function. The backend will design the logic for handling and storing the video information as well as displaying the videos on the main page.

### Gantt Chart for Milestone1

## Milestone 1

Project Name		DemoCourt																
Project Manager		Peng Zhang					Date											
							2019-3-29											
							week 4			week 5			week 6					
							Fri	Sat	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue
1	Basic Function	Member	Start Day	Due day	Days	Percentage												
1.1	Login page design	[REDACTED]	2019-3-29	2019-4-1	2	50%												
1.1.1	Sign in and Sign out		2019-3-29	2019-4-1	2	0%												
1.2	Building router and handing data		2019-3-29	2019-4-1	2	50%												
1.3	Building Database Model		2019-3-29	2019-4-1	2	70%												
1.4	Personal Page Design		2019-4-2	2019-4-5	3	10%												
1.5	User information verification		2019-4-2	2019-4-4	2	0%												
1.6	Function Test		2019-4-5	2019-4-5	0	0%												
2	Video uploading and posting	[REDACTED]																
2.1	Main Page design		2019-4-7	2019-4-11	4	0%												
2.2	Video upload fuction		2019-4-9	2019-4-11	3	0%												
2.3	Building router and handing data		2019-4-7	2019-4-11	4	0%												
2.4	Displaying Video on main page		2019-4-11	2019-4-14	4	0%												
2.6	Function Test		2019-4-15	2019-4-15	1	0%												
2.7	MileStone1 Delivery	All Members	2019-4-16	2019-4-16	1	0%												

## 2. The roles in the team

Project Manager: [REDACTED]

Other Team Members: [REDACTED]

## 3. The responsibilities in the team

[REDACTED]: Frontend Design, [REDACTED]: Backend Design, [REDACTED]: Database Design

## **4. Communication Plan**

### **4.1 Internal meeting**

Our internal meetings are held every week. The meeting will be held on Tuesday and Friday, including all members of the project team. We complete each meeting in 3 hours. The main content of the meeting is to discuss the progress of each person's work and the problems encountered. Then we will combine the frontend, backend, and database together to test the function we are supposed to finish this week. We will also make recommendations and comments on the results of each individual's work and discuss solutions to the problems.

### **4.2 External Meeting**

We will meet with our stakeholders on Sunday at 3 pm every week. The meeting time is 1 hour. At the meeting, we need to report to our clients about our work last week. The stakeholders will give some feedback to our work. And we will also ask questions and ask for help from the client based on the problem we encountered. Each meeting will have an agenda and minutes.

### **4.3 Documentation**

The documentation includes group reports, timesheet, meeting agenda/minutes and other necessary recording documents. The documentation aims to record the progress of each step of the whole project.

### **4.4 Version Control**

We use git hub for version management of project code and documentation. Every member in our group needs to submit their own code and files to git hub.

### **4.5 Using Social Media**

We also use Gmail and Facebook to communicate with stakeholders and project team members. This will help us keep track of everyone's work progress and the problems everyone has encountered.