Development	Project Title	Project Description	Customer	Group
Group Number			Number	
1	CodeClub	In the face of the current mainstream developers' communities or platforms (Github, Stack Overflow, code cloud, code City, Topcoder, Pogrammable Web), their business functions are relatively simple. CodeClub is a web-based platform that integrates the main functional modules of the current mainstream developer community, aims to provide "resource integration services" for the vast number of developers, and innovatively proposes "incentive mechanism" to recommend the top users to cooperative enterprises.		

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2	Rehabilitation	With the development of society and the general improvement of people's living standard,	1
	Treatment	people begin to pay more and more attention to health. In recent years, there are also a large	
	Platform (Android	number of medical and health service platforms on the Internet. However, rehabilitation	
	App)	therapy, an important medical direction, is seldom involved in China. Therefore, we hope to	
		achieve a small rehabilitation treatment platform based on Android platform, which specializes	
		in health. More specifically, physical therapy.	

3	Personal Fitness	In the rapid development of modern urban life, the fast pace of life requires a strong body,	4
	Coach System	which makes gyms springing up like bamboo shoots. However, as the price of housing in major	
		cities increases the cost of gyms, the price of personal trainers cannot meet the needs of the	
		masses. App is the best choice to teach your body shape according to your aptitude and make	
		fitness plan.	

4	Cloud Platform for	- Project requirements	3
	Medical and	Docking with hospital management system. Centralized cloud storage of patients' medical	
	Health Archives	records, case history, basic personal information, treatment process in different hospitals, and	
		establishment of personal medical and health records. Networking with hospital inspection	
		equipment, cloud storage of inspection results. High security and scalability of projects. Doctor	
		users can access and add medical and health records. I can only access medical records. Doctors	
		cannot delete previous medical records, treatment process, medical history and past cases.	
		Health records query by time, hospital and project. Potential disease prediction (doctor users)	

5 Control System for At present, pastry machines on the market all have the functions of mixing noodles, automatic 13 Intelligent Pastry mixing, fermentation and baking. Users only need to choose their favorite formula and set instructions. This method saves time and effort and can produce bread with full color and Machine fragrance. At the same time, relevant pastry machines also have pre-production and delayed production instructions. However, these functions cannot meet the individual needs of users, and cannot adjust the baking requirements of cakes according to the changes of users' itinerary plans; the functions of using the same processing technology for different ingredients need to be improved; the baking process of cakes cannot be artificially intervened and cannot meet the different requirements of different people. In view of the above problems, this subject develops a set of intelligent pastry machine based on STM32 MCU control. It can monitor the process of mixing, mixing and baking pastry by embedded system. At the same time, it establishes a database. Users can make or modify the formula by themselves. Different temperature curves are used for heating hardware, STM32F4 MCU and temperature and pressure sensors, and software is adopted. Keil 5, ANSYS 10.0 development environment and C programming language are used to develop data processing program. (1) The relationship between temperature field and heating power is established by finite element simulation. (2) Realizing adjustable motor speed in the process of blending (3) The pastry machine can set different heating modes and working hours.

6	Agricultural	Agricultural assistant app is a one-stop O2 O service platform, which is centered on serving	5
	assistant App	large farmers of farmland and helps them solve the problems of sale, financing and agricultural	
		technology services.	
		Functional requirements:	
		1. Personal account function, users can release accurate and real-time updates of local	
		agricultural information and real-time news provided by agricultural assistants to comment and sponsor functions.	
		2. Real-time news function, users can view the latest agricultural news, the latest agricultural	
		policy, the current real-time market of all kinds of agricultural products after opening the	
		agricultural assistant app.	
		3. Agricultural inquiry function. Users can search and inquire the details of agricultural	
		products, seeds, pesticides, fertilizers, enterprises, business licenses and production licenses to	
		provide effective and real data for large farmers.	
		4. Video publishing and viewing function, users can upload recorded videos for publishing, but	
		also can view other users released agricultural-related videos. At the same time, app also has a	
		certain classification function for video, users can see the video clearly.	
		5. The function of grain price checking and reporting, because most of the users are big	
		farmers, app also needs to provide the function of grain price query and reporting, which	
		provides a good online trading platform for large farmers to buy and sell grain.	
		6. The function of community forum enables users to communicate and communicate with	
		each other in real time in order to get some market and agricultural knowledge more	
		conveniently.	

the latter stage, after which you can also set up such optimization applications as "teach you	
high marks", through the experience of the elder brother, teach you how to "score".	
3. Student learning, cognitive needs module.	
Through the students' speeches on the forum, the corresponding schools can roughly analyze	
the students' learning situation and their cognitive level of things. At the same time, colleges	
and universities can also find some unreasonable places to take precautions against it. At the	
same time, students themselves can discuss some interesting issues. Because they are both	
college students, they have similar interests.	

8	Lost and Found	Nowadays, there is no well-known network channel on the market to publish or claim lost	11
	System	property. When the owner loses the item, he is hard to find it. It is impossible to find the lost	
		item in another place. There is no channel for the owner to return the items he has found.	
		Although there are lost and found centers in many places, these centers record lost and found	
		information with paper notes, which is time-consuming to inquire, and the owner must go to	
		the center to confirm his lost and found. Therefore, it is urgent to develop a national lost and	
		found system.	
		Roles: Administrator users (students, police, people of all identities)	
		Basic Function Modules	
		1. Registration login module: Users can register and administrators can login directly to the	
		system.	
		2. Home page module: ordinary users can browse the latest information, search for lost and	
		found information under multiple conditions, and display different kinds of lost and found	
		information in blocks. Website bulletin display.	
		3. Lost and Found module: Everyone can view the lost and Found information and details. Users	
		can contact the publisher to confirm their receipt after login.	
		4. Lost and Found module: Users can add and view details after landing. Everyone can check	
		the lost and found information.	
		5. Background management module: administrators can have user information management,	
		message management, website announcement management, lost and found lost management,	
		administrator information management and other functions.	
		6. Message board module: Users can leave messages or reply to specific lost and found items.	

9	Self-service	This project mainly wants to do unattended shopping, scan the two-dimensional code of goods	10
	shopping system	into the virtual shopping cart when visiting the supermarket, check out by oneself on the	
		mobile phone before leaving the supermarket, get the two-dimensional code of successful	
		payment, scan the code at the induction door when going out, and open the door	
		automatically if successful payment is not paid, please pay first and then through the induction	
		door. But it can also serve supermarkets, because some people like to visit supermarkets, but	
		they are afraid of long queues when paying, and this project just meets the needs of these	
		people.	

10	Help each other: A	Professional help is a network application that pays attention to the growth of College students.	9
	Crowdsourcing	The main users of the platform are high school graduates who are about to enter the University	
	Platform for	and senior students who are going to take the postgraduate examination. The platform will	
	College Students	solve the difficulties faced by students during the period of undergraduate admission and	
		postgraduate preparation due to information asymmetry, and at the same time continue to pay	
		attention to the growth of students during the undergraduate period. The platform will provide	
		students with basic free services, but also provide professional value-added services. While	
		providing professional services, the platform also provides services to users in the form of	
		crowdsourcing. The platform develops users through online publicity, expands the influence of	
		the platform through professional communication platform, and taps the potential value of	
		customers. The platform includes PC terminal and mobile terminal, PC terminal mainly takes	
		web platform as the core, mobile terminal takes Wechat public number as the core. The easiest	
		way to cut into the pain points of users, so that users can get the most needed services in a	
		straight line way.	

11	Student-Aid Charity Platform	This project is designed to help out-of-school children complete their studies and set up a charitable platform to help people realize charitable ideas for various reasons. It reminds people that charity needs everyone to participate and do their best to help the groups that need to be concerned.	8

12	Care for cancer	In today's environment, the role of psychotherapy for cancer patients is becoming more and	7
	patients	more obvious, and there are countless cases of successful cure of cancer because of a good	
		positive attitude. At present, hospitals need a good team to carry out the work of soothing care	
		for cancer patients and strengthen the possibility of cancer patients' cure. However, as the	
		number of cancer patients increases, the management of archives, the establishment of	
		· · · · · · · · · · · · · · · · · · ·	
		mitigation indicators, the psychological status of cancer patients, the formulation of mitigation	
		programs, and end-to-end follow-up are becoming more and more difficult to manage, such a	
		system will be needed to integrate these processes.	

13	No waiting for	The system can screen flight and ticket inquiries according to users' needs, such as whether	6
	tickets	there is meal, whether there is baggage, whether it can be returned or changed, etc. For the	
		users who need to consign, they can also input the weight of luggage by themselves, and the	
		corresponding price can be converted by the system and presented to the users.	
		In the process of ticket purchasing, the system can estimate the lowest price of the flight from	
		the current date to the departure date according to the historical price of the flight and the	
		arrangement of legal holidays. Users can choose to purchase tickets by themselves according to	
		the predicted price trend given by the system. They can also choose the service provided by the	
		system to ensure the success of ticket issuance. Users only need to pay the current predicted	
		ticket price and so on. The system ensures that the ticket purchasing task is completed within	
		the required date for additional service charges. Even if the final order price is higher than the	
		user's expenditure, the user does not need to make up the difference.	
		Users can set the expected price of one or more flights. When the price of the flights is lower	
		than the user's expectation, the system reminds users to buy tickets in time. At the same time,	
		the number of tickets in a certain warehouse of the shift is monitored. When the number of	
		tickets is lower than the threshold set by the user, relevant information is pushed to the user.	
		Users can choose to buy tickets by themselves after receiving notification or the automatic	
		order-placing service provided by the system.	
		The system provides optional transport service and accommodation service to solve the	
		worries of users who take morning and evening flights. At the same time, it also provides	
		ticketing services for connecting buses.	

14	Logistics	Basic Goal Requirements	17
	Enterprise Storage	Acquisition, recording, playback of target position and trajectory	
	and Transportation	Geographic Information Platform Support (Map Query, Display, Path Computing, Navigation)	
	Business	Including basic functions such as mobile storage, data synchronization, integrated message	
	Information	architecture, etc.	
	System Supported		
	by Geographic		
	Information		
	Platform		

45			46
15	Campus Library	This app is a functional expansion based on the existing app "self-study assistant" in the library	16
	Assistant App	of Wuhan University. According to our preliminary experience of the existing app, we know that	
		the existing "self-study assistant" only completes the basic reserved seats, site seating and	
		other functions, which need to be gradually increased, and ultimately realize the electronic	
		library, so that students can enjoy most of the library services without leaving home.	
		indially, so that stadents can enjoy most of the horary services without leaving home.	

Through our software, you can send monitoring invitations to relatives and friends, and

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			monitor the location information of friends from time to time. If the distance warning function	
			is set, when the distance between friends and you exceed the set distance, alarm vibration and	
			other prompt functions will be activated. Through "Where" APP, we can know each other's	
			specific location and surrounding reality in real time, and can quickly. Navigate at high speed.	
17	"Healthy	Life"	System Main Requirements Description	14
	System		1: Patients and doctors can carry out online consultation function.	
			2: The patient can make an appointment to see a doctor online.	
			3: App connects to wearable devices, and transmits the user's body function information (heart	
			rate, blood pressure, etc.) to the database through wearable devices.	
			4: When patients need emergency help, they can send requests through app, connect with map	
			app to obtain location information, and push emergency help notification to the app terminal	
			of the adjacent certified doctor. Doctors can rush to the scene to help.	
			5: After the doctor succeeds in rescuing, he can apply to the hospital representative's web end.	
			If the hospital representative verifies the success, the doctor's integral will increase according	
			to the situation. The integral will add to the doctor's salary, reputation and so on.	
			6: Doctors can apply to the hospital web through app, so that in the ambulance or accident	
			scene, more experts can be consulted by online video to improve the success rate of rescue.	