1. Program Presentation

1 Import data manually
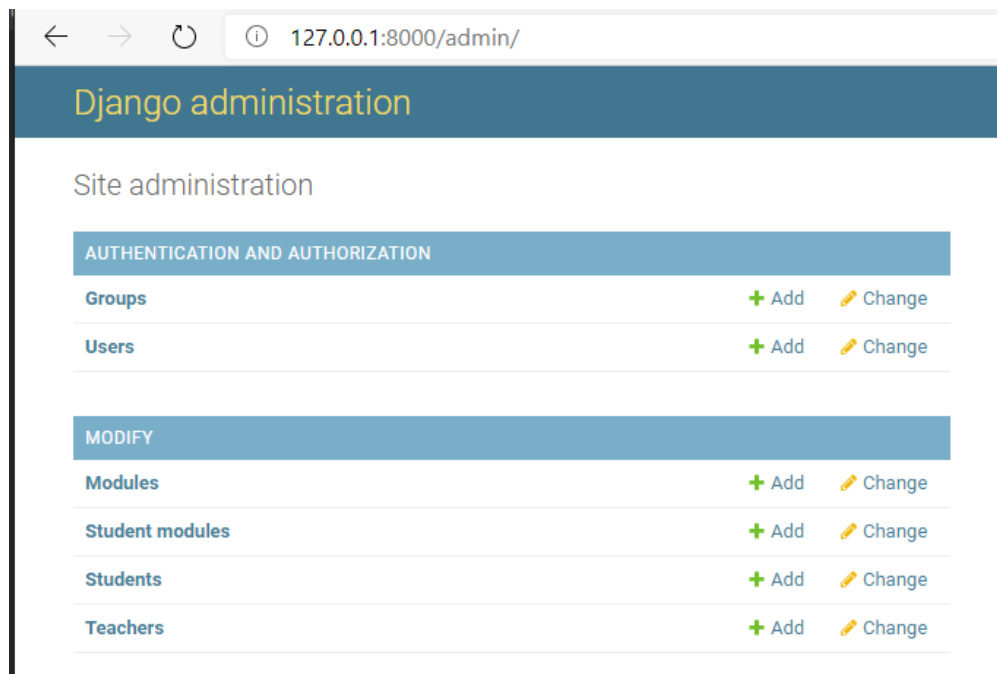
Figure 1.1 login as administrator

Figure 1.2 Select the table you want to modify

2 Import data from excel file

please import teacher information [Choose File] teacher.xls   [Submit]

please import student information [Choose File] student.xls   [Submit]

please import module information [Choose File] module.xls   [Submit]

please import Student Module selection information [Choose File] selected.xls   [Submit]

Figure 2.1 Import data from chosen file.

	A	B	C	D	E	F
1	teacher_id	name	email	password	gender	institute
2	123qwe	Run xu	643270933@qq.co	123123	male	computer
3	123123	Zhongtian Hu	23451232@qq.com	123456	female	electronic

Figure 2.2 the format of teacher.xls

	A	B	C	D	E	F	G	H	I	J
1	name	student_id	email	assistant_email	gender	major	grade	class	bluetooth_address	
2	Hao Wang	201088966	643270933@qq.co	123123@qq.com	male	computer	3	1	7C:B3:7E:E4:5D:81	
3	Zhongtian Hu	2016110246	915492435@qq.co	123456@qq.com	female	electronic	4	2	7C:B2:7D:E4:5D:80	

Figure 2.3 the format of module.xls

	A	B	C	D	E
1	module_code	module_name	time	data	teacher
2	XJCO1111	project1	12:00	2020-05-03	123qwe
3	Zhongtian Hu	pro2	12:00	2020-05-03	123qwe
4					

Figure 2.4 the format of module.xls

Figure 2.5 the format of selected.xls

3 Attendance

Figure 3.1 Login
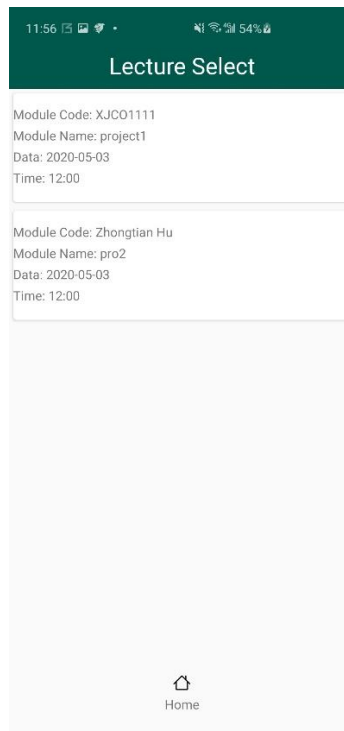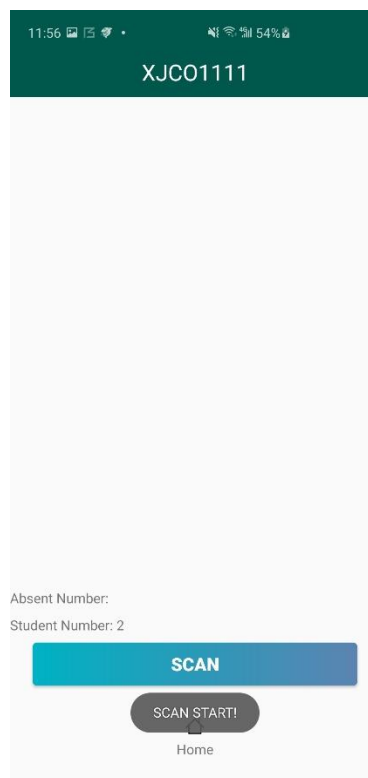
Figure 3.2 Select module

Figure 3.3 Scan Start
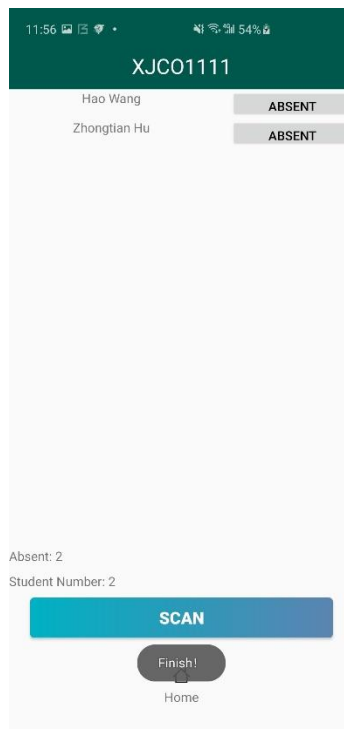
Figure 3.4 Scan Finish

Figure 3.5 Absent Confirm

Figure 3.6 Warning Email

4 Export data
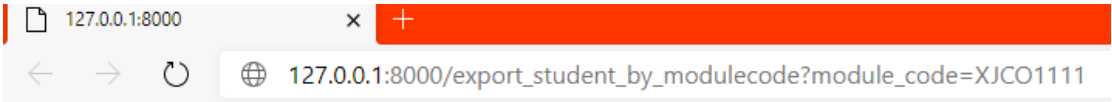
Figure 4.1 Export data using provided API

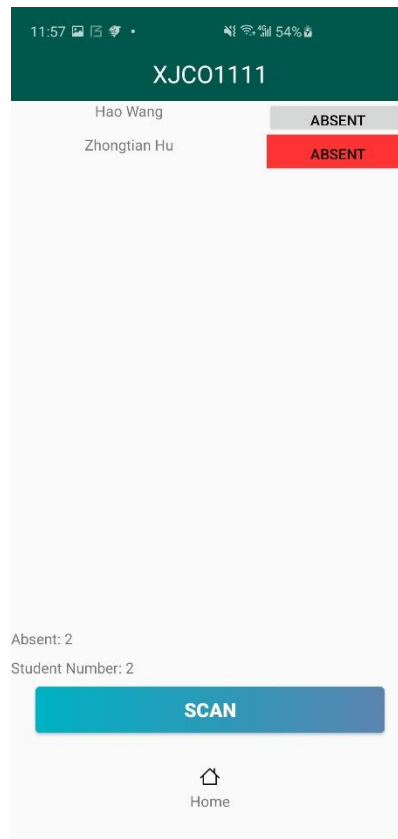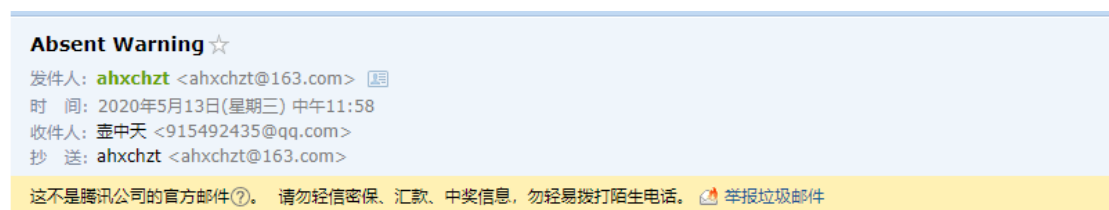| name	student_id	absent_tim	email	assistant_email	gender	major	grade	class
Hao Wang	201088966	0	643270933@qq.com	123123@qq.com	male	computer	3	1
Zhongtian	2016110246	5	915492435@qq.com	123456@qq.com	female	electronic	4	2

Figure 4.2 XJCO1111.xls

2. Data format in excel file

1 module

	A	B	C	D	E
1	module_code	module_name	time	data	teacher
2	XJCO1111	project1	12:00	2020-05-03	123qwe
3	Zhongtian Hu	pro2	12:00	2020-05-03	123qwe
4					

2 student

	A	B	C	D	E	F	G	H	I	J
1	name	student_id	email	assistant_email	gender	major	grade	class	bluetooth_address	
2	Hao Wang	201088966	643270933@qq.co	123123@qq.com	male	computer	3	1	7C:B3:7E:E4:5D:81	
3	Zhongtian Hu	2016110246	915492435@qq.co	123456@qq.com	female	electronic	4	2	7C:B2:7D:E4:5D:80	

3 teacher

	A	B	C	D	E	F
1	teacher_id	name	email	password	gender	institute
2	123qwe	Run xu	643270933@qq.co	123123	male	computer
3	123123	Zhongtian Hu	23451232@qq.com	123456	female	electronic

4 the type of excel cell must be 'text'