Name ………………………………………… Student ID…………………………………..

School of Engineering
King Mongkut's Institute of Technology Ladkrabang
Final Examination, 1st Semester, Academic Year 2021
Subject: 13016344 Web Programming Year: 3
Examination Date: Wednesday 9th December 2021 Time: 13.30 – 16.30 Hrs.

Instructions: This is an OPENED BOOK exam.

1. (15 points) Write HTML5 and JavaScript codes which create an HTML table of **a telephone dial panel with the display screen on top**, as shown in **Figure 1**. At the beginning the screen displays the message "Please dial a tel. no.". The user then keeps pressing a numeric key to dial some 10 numbers, each of them will be displayed one by one in sequence; if there are fewer than 10 numbers the user can dial more numbers until it has reached 10 numbers; an error will occur once the user dials 11 numbers or more. To remove the error, the user needs to press "<Del", to remove the recent digits until the total dialed numbers are fewer than 11. The user can always correct the previous dialed numbers by pressing "<Del" to remove the wrong dialed numbers backwards.

   After all 10 numbers were dialed correctly, the user can now make a (virtual) call by pressing "Call", the screen will display the message "Calling…" after the dialed numbers; and **when the key "Call" is pressed again**, the panel will be ready to take another telephone number by prompting the message "Please dial a tel. no.". Then what was described earlier in the first paragraph will repeat again.
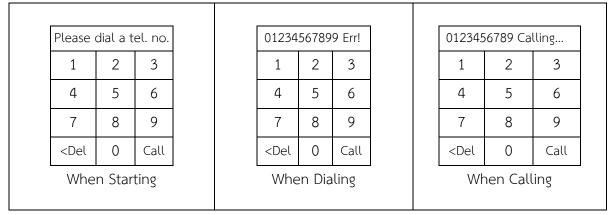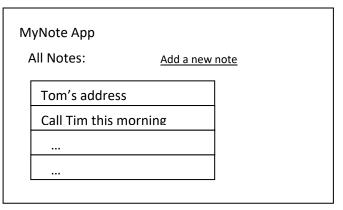
Please dial a tel. no.		
1	2	3
4	5	6
7	8	9
<Del	0	Call

When Starting

01234567899 Err!		
1	2	3
4	5	6
7	8	9
<Del	0	Call

When Dialing

0123456789 Calling…		
1	2	3
4	5	6
7	8	9
<Del	0	Call

When Calling

Figure 1.

2. (10 points) Please **firstly** describe a structure of an HTTP (of version 1.1) message, **both** a Request message and a Response message, and **secondly** give an example of a GET Request message and its Response message respectively.
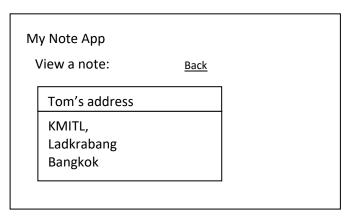
3. (15 points) Write HTML5 and Django codes for developing a MyNote Django application, which allows a user to post a note containing **a note title and its content**. The user can **post** a new note and **view** all of previously posted notes (see the figures below).
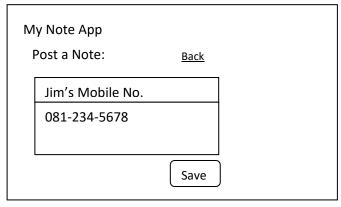
Write down only the codes for **a model, views, and templates** of this Django application.

MyNote App

All Notes: Add a new note

| Tom's address |
| Call Tim this morning |
| … |
| … |

(Home) Page for viewing all existing notes

My Note App

View a note: Back

| Tom's address |
| KMITL,
Ladkrabang
Bangkok |

Page for viewing the detail of a note

My Note App

Post a Note: Back

| Jim's Mobile No. |
| 081-234-5678 |

Save

Page for posting a new note

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