ACADEMIC HELPER BOT

IN TELEGRAM

21CSS101J - PROGRAMMING FOR PROBLEM SOLVING

Mini Project Report

Submitted by

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INTRODUCTION AND APPLICATION

ACADEMIC HELPER BOT is a python based telegram chatbot that displays timetable and study materials could be a useful tool for students. The chatbot could be integrated with a student's class schedule and course materials, allowing them to easily access this information through a conversational interface on the popular messaging app, Telegram. The chatbot could be triggered using specific commands, such as "TIME TABLE" to display the user's current schedule, or "PDF" to access their course materials. The chatbot could also provide reminders for upcoming classes and assignments, helping students to stay organized and on track with their studies. Overall, a python based telegram chatbot for displaying timetable and study materials could be a convenient and efficient tool for students to manage their academic responsibilities.

WORKING PROCEDURE

- 1. First, create a telegram account and set up a telegram bot using the BotFather tool.
- 2. Create a python script that will handle the communication between the telegram bot and the user.
- 3. Import the required libraries, such as the python-telegram-bot library, for handling the telegram bot interactions.
- 4. Use the telegram bot token provided by the BotFather to create an instance of the telegram bot and set up API KEY to receive updates from the telegram server.
- 5. Implement a function that will handle the user's request for the timetable and study materials.
- 6. Use the telegram bot's send_message() function to send the timetable and study materials to the user.
- 7. Test the telegram bot to ensure that it is functioning correctly and providing the timetable and study materials to the user.
- 8. Continuously monitor the telegram bot to ensure that it is functioning correctly and providing timely responses to user requests.

PROGRAMME

from telegram.ext import CommandHandler, CallbackQueryHandler, Updater from telegram import InlineKeyboardButton, InlineKeyboardMarkup from pdf import *

```
def start(update, context):
first_name = update.message.chat.first_name
 last_name = update.message.chat.last_name
 print("Client User : {} {}".format(first name, last name))
 update.message.reply_text(main_menu_message(),
               reply_markup=main_menu_keyboard())
def main_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=main_menu_message(),
             reply_markup=main_menu_keyboard())
def day_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=day_menu_message(),
             reply_markup=day_menu_keyboard())
```

def day1time_menu(update, context):

query = update.callback_query

query.answer()

```
query.edit_message_text(text=day1time_menu_message()
             , reply_markup=day1time_menu_keyboard())
def day2time_menu(update, context):
 query = update.callback_query
query.answer()
query.edit_message_text(text=day2time_menu_message()
             , reply_markup=day2time_menu_keyboard())
def day3time_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=day3time_menu_message()
             , reply_markup=day3time_menu_keyboard())
def day4time_menu(update, context):
 query = update.callback_query
query.answer()
query.edit_message_text(text=day4time_menu_message()
             , reply_markup=day4time_menu_keyboard())
def day5time_menu(update, context):
query = update.callback_query
query.answer()
 query.edit_message_text(text=day5time_menu_message()
             , reply_markup=day5time_menu_keyboard())
def english4_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=english_menu_message()
```

```
reply_markup=english4_menu_keyboard())
def english5_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=english_menu_message()
             reply_markup=english5_menu_keyboard())
def eee1_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=eee_menu_message()
             reply_markup=eee1_menu_keyboard())
def eee2_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=eee_menu_message()
             reply_markup=eee2_menu_keyboard())
def eee3_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=eee_menu_message()
             reply_markup=eee3_menu_keyboard())
def maths2_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=maths_menu_message()
```

```
reply_markup=maths2_menu_keyboard()
def maths3_menu(update, context):
query = update.callback_query
 query.answer()
 query.edit_message_text(text=maths_menu_message()
             reply_markup=maths3_menu_keyboard()
def maths4_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=maths_menu_message()
             reply_markup=maths4_menu_keyboard()
             )
def ev_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=ev_menu_message()
             , reply_markup=ev_menu_keyboard())
def coi_menu(update, context):
 query = update.callback_query
 query.answer()
 query.edit_message_text(text=coi_menu_message()
             , reply_markup=coi_menu_keyboard())
def psp_menu(update, context):
 query = update.callback_query
```

```
query.answer()
query.edit_message_text(text=psp_menu_message()
             , reply_markup=psp_menu_keyboard())
def ppsub1_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=ppsub_menu_message()
             reply_markup=ppsub1_menu_keyboard()
             )
def ppsub5_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=ppsub_menu_message()
             reply_markup=ppsub5_menu_keyboard()
def ppstp3_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=ppstp_menu_message()
             reply_markup=ppstp3_menu_keyboard()
             )
def egd1_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=egd_menu_message()
```

```
reply_markup=egd1_menu_keyboard())
```

```
def scp5_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=scp_menu_message()
             reply_markup=scp5_menu_keyboard())
def scp4_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=scp_menu_message(),
             reply_markup=scp4_menu_keyboard())
def scp3_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=scp_menu_message(),
             reply_markup=scp3_menu_keyboard())
def scplab5_menu(update, context):
query = update.callback_query
query.answer()
query.edit_message_text(text=scplab_menu_message(),
             reply_markup=scplab5_menu_keyboard())
#######################MESSAGE#################################
```

return 'Hello there , i am here to help you to get your time Table ��... '

def main_menu_message():

```
def day_menu_message():
 return 'Can you say me the Day order of your class
def day1time_menu_message():
return 'You has been selected Day 1, you can select the below timings'
def day2time_menu_message():
 return 'You has been selected Day 2, you can select the below
timings' def day3time_menu_message():
return 'You has been selected Day 3, you can select the below timings'
def day4time_menu_message():
return 'You has been selected Day 4, you can select the below timings'
def day5time_menu_message():
return 'You has been selected Day 5, you can select the below timings'
def eee_menu_message():
 return '\nClass - Electrical and Electronic Engineering'
         \'\n\nFaculty - SATTIANANDAN D'\
    '\n\nRoom No - UB 1102'
```

def ppsub_menu_message():

return '\nClass - Programming and Problem Solving '

```
'\n\nRoom No - TP710'
def egd_menu_message():
 return '\nClass - Engineering Graphics and Design' \
     '\n\nFaculty - ARUN PRASANTH' \
    '\n\nRoom No - BEL 401'
def ev_menu_message():
 return '\nClass - Environmental Science' \
    '\n\nFaculty - PRAKASH M' \
    '\n\nRoom No - Online Class'
def coi_menu_message():
 return '\nClass - Constitution of India' \
     '\n\nFaculty - MICHAEL RAJ ' \
    '\n\nRoom No - Online Class'
def psp menu message():
 return '\nClass - Professional Skills and Practices' \
    '\n\nFaculty - SANGEETHA K' \
     '\n\nRoom No - Online Class'
def maths_menu_message():
 return '\nClass - Calculus and Linear Algebra' \
    '\n\nFaculty - SAMPATH' \
    '\n\nRoom No - UB 1102'
def ppstp_menu_message():
 return '\nClass - Programming and Problem Solving ' \
     '\n\nFaculty - ANBHAZHAGU' \
     '\n\nRoom No - UB 1102'
```

\ '\n\nFaculty - ROHIT KUMAR ' \

```
def english_menu_message():
 return '\nClass - Communicative English' \
    '\n\nFaculty - MONIKA NAIR' \
    '\n\nRoom No - UB 1102'
def scp_menu_message():
 return '\nClass - Semiconductor Physics and Computational Methods'
    \'\n\nFaculty - TUSHARBHAI HIMMATBHAI RANA' \
    '\n\nRoom No - UB 1102'
def scplab_menu_message():
 return '\nClass - Engineering Graphics and Design' \
    '\n\nFaculty - ARUNPRASANTH' \
    '\n\nRoom No - BEL 401'
def main_menu_keyboard():
 keyboard = [[
 InlineKeyboardButton('Time Table', callback_data='day'),
 InlineKeyboardButton('PDF', callback_data='pdfmenu')
], [InlineKeyboardButton("Contact",
 url='https://t.me/jackwaghan')]] return
 InlineKeyboardMarkup(keyboard)
def day_menu_keyboard():
 keyboard = [
 InlineKeyboardButton('Day 1', callback_data='d1'),
   InlineKeyboardButton('Day 2', callback_data='d2'),
 ],
  Γ
   InlineKeyboardButton('Day 3', callback_data='d3'),
   InlineKeyboardButton('Day 4', callback_data='d4'),
 ],
```

Γ

```
InlineKeyboardButton('Day 5', callback_data='d5'),
  ],
  [InlineKeyboardButton('Back', callback_data='main')],
]
 return InlineKeyboardMarkup(keyboard)
def day1time_menu_keyboard():
 keyboard = [[InlineKeyboardButton('08:00 - 09:40 AM',
       callback_data='eee1')], [
        InlineKeyboardButton('09:45 - 11:30 AM',
                    callback_data='ppsub1')
       ],
       [InlineKeyboardButton('01:25 - 04:55 PM',
       callback_data='egd1')], [InlineKeyboardButton('Back',
       callback_data='day')]]
 return InlineKeyboardMarkup(keyboard)
def day2time_menu_keyboard():
 keyboard = [[InlineKeyboardButton('08:00 - 08:50 AM',
       callback_data='ev')], [InlineKeyboardButton('08:50 - 09:40 AM',
       callback_data='coi')], [InlineKeyboardButton('09:45 - 11:30 AM',
       callback_data='psp')], [
        InlineKeyboardButton('12:30 - 02:15 PM',
                    callback_data='maths2')
       ],
       [InlineKeyboardButton('04:05 - 04:55 PM',
       callback_data='eee2')], [InlineKeyboardButton('Back',
       callback_data='day')]]
 return InlineKeyboardMarkup(keyboard)
def day3time_menu_keyboard():
 keyboard = [
  [InlineKeyboardButton('09:45 - 10:35 AM', callback_data='eee3')],
  [InlineKeyboardButton('10:40 - 11:30 AM', callback_data='scp3')],
```

```
[InlineKeyboardButton('11:35 - 12:25 PM',
  callback_data='maths3')], [InlineKeyboardButton('03:15 - 04:55
  PM', callback_data='ppstp3')], [InlineKeyboardButton('Back',
  callback_data='day')]
]
 return InlineKeyboardMarkup(keyboard)
def day4time_menu_keyboard():
 keyboard = [[InlineKeyboardButton('12:30 - 02:15 PM',
       callback_data='scp4')], [
        InlineKeyboardButton('02:20 - 03:10 PM',
                    callback data='maths4')
       1,
       [InlineKeyboardButton('03:15 - 04:05 PM',
       callback_data='eng4')], [InlineKeyboardButton('Back',
       callback_data='day')]]
 return InlineKeyboardMarkup(keyboard)
def day5time_menu_keyboard():
 keyboard = [
  [InlineKeyboardButton('08:00 - 09:40 AM', callback_data='eng5')],
  [InlineKeyboardButton('10:40 - 11:30 AM',
  callback_data='ppsub5')], [InlineKeyboardButton('11:35 - 12:25
  PM', callback_data='scp5')], [InlineKeyboardButton('01:25 - 03:10
  PM', callback_data='scplab5')], [InlineKeyboardButton('Back',
  callback data='day')]
 return InlineKeyboardMarkup(keyboard)
def english4_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d4')]] return InlineKeyboardMarkup(keyboard)
```

```
def english5_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d5')]] return InlineKeyboardMarkup(keyboard)
def egd1_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d1')]] return InlineKeyboardMarkup(keyboard)
def ppsub1_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d1')]] return InlineKeyboardMarkup(keyboard)
def ppsub5_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d5')]] return InlineKeyboardMarkup(keyboard)
def eee1 menu keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d1')]] return InlineKeyboardMarkup(keyboard)
def eee2_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d2')]] return InlineKeyboardMarkup(keyboard)
def eee3_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d3')]] return InlineKeyboardMarkup(keyboard)
def maths2_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d2')]] return InlineKeyboardMarkup(keyboard)
```

```
def maths3_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d3')]] return InlineKeyboardMarkup(keyboard)
def maths4_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback data='d4')]] return InlineKeyboardMarkup(keyboard)
def ppstp3_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d3')]] return InlineKeyboardMarkup(keyboard)
def scp3_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d3')]] return InlineKeyboardMarkup(keyboard)
def scp4 menu keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d4')]] return InlineKeyboardMarkup(keyboard)
def scp5_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback data='d5')]] return InlineKeyboardMarkup(keyboard)
def scplab5_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback data='d5')]] return InlineKeyboardMarkup(keyboard)
def ev menu keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d2')]] return InlineKeyboardMarkup(keyboard)
```

```
def coi_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback_data='d2')]] return InlineKeyboardMarkup(keyboard)
def psp_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Back',
 callback data='d2')]] return InlineKeyboardMarkup(keyboard)
def help_menu_keyboard():
 keyboard = [[InlineKeyboardButton('Contact',
 url='t.me/jackwaghan')]] return InlineKeyboardMarkup(keyboard)
updater =
         Updater('5982978702:AAGtnxQ2d S3gewdxDbx402mU50 k7qDBiM',
         use context=True)
updater.dispatcher.add_handler(CommandHandler('start',
start)) updater.dispatcher.add_handler(
CallbackQueryHandler(pdf_menu, pattern='pdfmenu'))
updater.dispatcher.add_handler(CallbackQueryHandler(main_menu
, pattern='main'))
updater.dispatcher.add_handler(CallbackQueryHandler(day_menu
, pattern='day'))
updater.dispatcher.add_handler(
CallbackQueryHandler(day1time_menu, pattern='d1'))
updater.dispatcher.add_handler(
CallbackQueryHandler(day2time_menu, pattern='d2'))
updater.dispatcher.add_handler(
CallbackQueryHandler(day3time_menu, pattern='d3'))
updater.dispatcher.add_handler(
CallbackQueryHandler(day4time_menu, pattern='d4'))
updater.dispatcher.add_handler(
CallbackQueryHandler(day5time_menu, pattern='d5'))
```

```
updater.dispatcher.add_handler(
 CallbackQueryHandler(english4_menu, pattern='eng4'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(english5_menu, pattern='eng5'))
updater.dispatcher.add_handler(CallbackQueryHandler(eee1_menu
, pattern='eee1'))
updater.dispatcher.add_handler(CallbackQueryHandler(eee2_menu
, pattern='eee2'))
updater.dispatcher.add_handler(CallbackQueryHandler(eee3_menu
, pattern='eee3'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(ppsub1_menu, pattern='ppsub1'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(ppsub5_menu, pattern='ppsub5'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(ppstp3_menu, pattern='ppstp3'))
updater.dispatcher.add_handler(CallbackQueryHandler(egd1_menu
, pattern='egd1'))
updater.dispatcher.add_handler(CallbackQueryHandler(ev_menu, pattern='ev'))
updater.dispatcher.add handler(CallbackQueryHandler(coi menu,
pattern='coi'))
updater.dispatcher.add handler(CallbackQueryHandler(psp menu,
pattern='psp'))
updater.dispatcher.add handler(
 CallbackQueryHandler(maths2_menu, pattern='maths2'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(maths3_menu, pattern='maths3'))
updater.dispatcher.add_handler(
 CallbackQueryHandler(maths4_menu, pattern='maths4'))
updater.dispatcher.add_handler(CallbackQueryHandler(scp3_menu
, pattern='scp3'))
updater.dispatcher.add_handler(CallbackQueryHandler(scp4_menu
, pattern='scp4'))
updater.dispatcher.add_handler(CallbackQueryHandler(scp5_menu
, pattern='scp5'))
updater.dispatcher.add_handler(
```

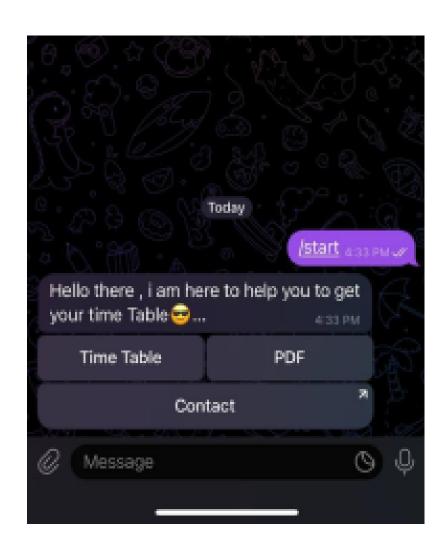
```
CallbackQueryHandler(scplab5_menu, pattern='scplab5'))
```

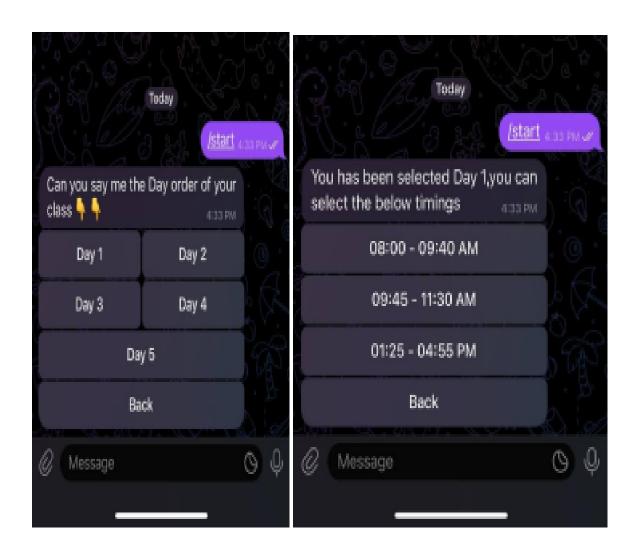
```
updater.dispatcher.add handler(
CallbackQueryHandler(beeepdf_menu, pattern='eeepdf'))
updater.dispatcher.add_handler(
CallbackQueryHandler(beeeunit1_menu, pattern='111'))
updater.dispatcher.add handler(
CallbackQueryHandler(beeeunit2_menu, pattern='112'))
updater.dispatcher.add_handler(
CallbackQueryHandler(beeeunit3_menu, pattern='113'))
updater.dispatcher.add_handler(
CallbackQueryHandler(beeeunit4_menu, pattern='114'))
updater.dispatcher.add_handler(
CallbackQueryHandler(mathspdf_menu,
pattern='mathspdf')) updater.dispatcher.add_handler(
CallbackQueryHandler(mathsunit1_menu, pattern='121'))
updater.dispatcher.add_handler(
CallbackQueryHandler(mathsunit2_menu, pattern='122'))
updater.dispatcher.add handler(
CallbackQueryHandler(mathsunit3 menu, pattern='123'))
updater.dispatcher.add_handler(
CallbackQueryHandler(mathsunit4_menu, pattern='124'))
################
updater.dispatcher.add_handler(
CallbackQueryHandler(ppspdf_menu, pattern='ppspdf'))
updater.dispatcher.add_handler(CallbackQueryHandler(ppsc_menu
, pattern='131'))
updater.dispatcher.add_handler(
```

CallbackQueryHandler(ppspython_menu, pattern='132'))

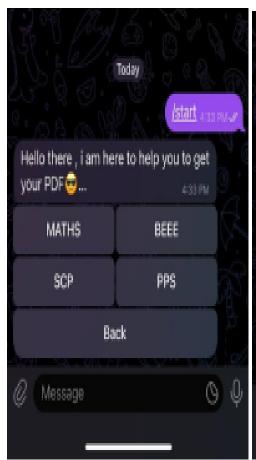
updater.start_polling()
updater.idle()

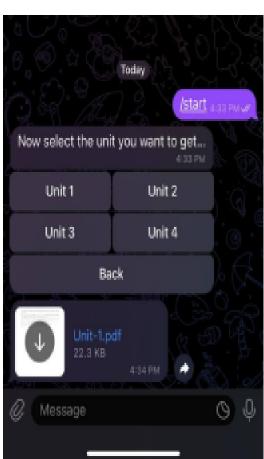
PROGRAMME OUTPUT











CONCLUSION

The project of developing a Python-based Telegram chatbot for displaying timetable and study materials has been successfully completed. The chatbot has been integrated with the Telegram API and has been tested for its functionality and usability.

The chatbot allows users to access their timetable and study materials by simply sending a command to the bot. The bot responds with the requested information in a user-friendly format. The timetable and study materials are updated regularly to ensure that the users always have access to the latest information.

The chatbot has been well-received by the users, who have appreciated its convenience and ease of use. The chatbot has helped students and educators to easily access and manage their timetable and study materials, which has improved their productivity and learning experience.

In conclusion, the development of the Python-based Telegram chatbot for displaying timetable and study materials has been a successful endeavor, and it has proven to be a valuable tool for students and educators alike.