Теоретические материалы к занятию 7

С ограничением доступа мы уже немного знакомы, но прежде чем вплотную этим заняться давайте допишем нашего бота. Теперь перейдем в папку user и создадим файл cart для корзины

```
@dp.message handler(IsUser(), text=cart)
async def process cart(message: Message, state: FSMContext):
  cart data = db.fetchall(
       'SELECT * FROM cart WHERE cid=?', (message.chat.id,))
  if len(cart data) == 0:
      await message.answer('Ваша корзина пуста.')
   else:
      await bot.send chat action(message.chat.id,
ChatActions.TYPING)
      async with state.proxy() as data:
          data['products'] = {}
      order cost = 0
      for , idx, count in cart in cart data:
          product = db.fetchone('SELECT * FROM products WHERE
idx=?', (idx,))
          if product == None:
              db.query('DELETE FROM cart WHERE idx=?', (idx,))
          else:
              , title, body, image, price, _ = product
              order cost += price
              async with state.proxy() as data:
                  data['products'][idx] = [title, price,
count in cart]
              markup = product markup(idx, count in cart)
              {price}₽.'
              await message.answer photo(photo=image,
                                         caption=text,
                                        reply markup=markup)
      if order cost != 0:
```

```
markup = ReplyKeyboardMarkup(resize keyboard=True,
selective=True)
           markup.add(' Оформить заказ')
           await message.answer('Перейти к оформлению?',
                                reply markup=markup)
@dp.callback query handler(IsUser(),
product cb.filter(action='count'))
@dp.callback query handler(IsUser(),
product cb.filter(action='increase'))
@dp.callback_query_handler(IsUser(),
product cb.filter(action='decrease'))
async def product callback handler (query: CallbackQuery,
callback data: dict, state: FSMContext):
   idx = callback data['id']
   action = callback data['action']
   if 'count' == action:
       async with state.proxy() as data:
           if 'products' not in data.keys():
               await process_cart(query.message, state)
           else:
               await query.answer('Количество - ' +
data['products'][idx][2])
   else:
       async with state.proxy() as data:
           if 'products' not in data.keys():
               await process_cart(query.message, state)
           else:
               data['products'][idx][2] += 1 if 'increase' ==
action else -1
               count in cart = data['products'][idx][2]
               if count in cart == 0:
                   db.query('''DELETE FROM cart
                   WHERE cid = ? AND idx = ?''',
(query.message.chat.id, idx))
                   await query.message.delete()
               else:
```

```
db.query('''UPDATE cart
                   SET quantity = ?
                   WHERE cid = ? AND idx = ?''', (count in cart,
query.message.chat.id, idx))
                   await
query.message.edit reply markup(product markup(idx,
count in cart))
@dp.message handler(IsUser(), text=' р Оформить заказ')
async def process checkout (message: Message, state: FSMContext):
   await CheckoutState.check cart.set()
   await checkout(message, state)
async def checkout (message, state):
  answer = ''
  total price = 0
   async with state.proxy() as data:
       for title, price, count_in_cart in
data['products'].values():
           tp = count in cart * price
           answer += f' < b > \{title\} < /b > * {count in cart} \mu \pi. =
{tp}₽\n'
           total price += tp
   await message.answer(f'{answer}\nОбщая сумма заказа:
{total price}₽.',
                        reply markup=check markup())
@dp.message handler(IsUser(), lambda message: message.text not in
[all right message, back message],
state=CheckoutState.check cart)
async def process check cart invalid(message: Message):
   await message.reply('Такого варианта не было.')
@dp.message handler(IsUser(), text=back message,
state=CheckoutState.check cart)
async def process_check_cart_back(message: Message, state:
FSMContext):
  await state.finish()
   await process cart(message, state)
@dp.message handler(IsUser(), text=all right message,
state=CheckoutState.check cart)
```

```
async def process check cart all right (message: Message, state:
FSMContext):
   await CheckoutState.next()
   await message.answer('Укажите свое имя.',
                        reply markup=back markup())
@dp.message handler(IsUser(), text=back message,
state=CheckoutState.name)
async def process name back(message: Message, state: FSMContext):
   await CheckoutState.check cart.set()
   await checkout(message, state)
@dp.message handler(IsUser(), state=CheckoutState.name)
async def process name (message: Message, state: FSMContext):
   async with state.proxy() as data:
       data['name'] = message.text
       if 'address' in data.keys():
           await confirm(message)
           await CheckoutState.confirm.set()
       else:
           await CheckoutState.next()
           await message.answer('Укажите свой адрес места
жительства.',
                                reply markup=back markup())
@dp.message handler(IsUser(), text=back message,
state=CheckoutState.address)
async def process address back (message: Message, state:
FSMContext):
   async with state.proxy() as data:
       await message.answer('Изменить имя c <b>' + data['name'] +
'</b>?',
                            reply markup=back markup())
   await CheckoutState.name.set()
@dp.message handler(IsUser(), state=CheckoutState.address)
async def process address (message: Message, state: FSMContext):
   async with state.proxy() as data:
       data['address'] = message.text
   await confirm(message)
```

```
await CheckoutState.next()
async def confirm(message):
   await message.answer('Убедитесь, что все правильно оформлено и
подтвердите заказ.',
                        reply markup=confirm markup())
@dp.message handler(IsUser(), lambda message: message.text not in
[confirm message, back message], state=CheckoutState.confirm)
async def process confirm invalid (message: Message):
   await message.reply('Такого варианта не было.')
@dp.message handler(IsUser(), text=back message,
state=CheckoutState.confirm)
async def process confirm(message: Message, state: FSMContext):
   await CheckoutState.address.set()
   async with state.proxy() as data:
       await message.answer('Изменить адрес c <b>' +
data['address'] + '</b>?',
                            reply markup=back markup())
@dp.message handler(IsUser(), text=confirm message,
state=CheckoutState.confirm)
async def process confirm(message: Message, state: FSMContext):
   enough money = True # enough money on the balance sheet
  markup = ReplyKeyboardRemove()
   if enough money:
       logging.info('Deal was made.')
       async with state.proxy() as data:
           cid = message.chat.id
           products = [idx + '=' + str(quantity)
                       for idx, quantity in db.fetchall('''SELECT
idx, quantity FROM cart
           WHERE cid=?''', (cid,))] # idx=quantity
           db.query('INSERT INTO orders VALUES (?, ?, ?, ?)',
                    (cid, data['name'], data['address'], '
'.join(products)))
           db.query('DELETE FROM cart WHERE cid=?', (cid,))
```

файл catalog

```
@dp.message handler(IsUser(), text=catalog)
async def process catalog(message: Message):
   await message.answer('Выберите раздел, чтобы вывести список
товаров:',
                        reply markup=categories markup())
@dp.callback query handler(IsUser(),
category cb.filter(action='view'))
async def category callback handler (query: CallbackQuery,
callback data: dict):
   products = db.fetchall('''SELECT * FROM products product
  WHERE product.tag = (SELECT title FROM categories WHERE idx=?)
  AND product.idx NOT IN (SELECT idx FROM cart WHERE cid =
?)''',
                          (callback data['id'],
query.message.chat.id))
   await query.answer('Все доступные товары.')
   await show products(query.message, products)
@dp.callback query handler(IsUser(),
product cb.filter(action='add'))
async def add product callback handler (query: CallbackQuery,
callback data: dict):
   db.query('INSERT INTO cart VALUES (?, ?, 1)',
            (query.message.chat.id, callback data['id']))
   await query.answer('Товар добавлен в корзину!')
   await query.message.delete()
async def show products (m, products):
   if len(products) == 0:
       await m.answer('Здесь ничего нет 😢')
```

файл delivery-status

```
@dp.message handler(IsUser(), text=delivery status)
async def process_delivery_status(message: Message):
   orders = db.fetchall('SELECT * FROM orders WHERE cid=?',
(message.chat.id,))
   if len(orders) == 0:
       await message.answer('У вас нет активных заказов.')
       await delivery status answer (message, orders)
async def delivery status answer (message, orders):
  res = ''
   for order in orders:
       res += f'3aka3 <b>N(order[3])</b>'
       answer = [
           ' лежит на складе.',
           ' уже в пути!',
           ' прибыл и ждет вас на почте!'
       res += answer[0]
       res += '\n\n'
   await message.answer(res)
```

menu

```
from aiogram.types import Message, CallbackQuery,
ReplyKeyboardMarkup
from loader import dp
from filters import IsAdmin, IsUser
```

```
catalog = '腌 Каталог'
balance = '« Баланс'
cart = ' Ж Корзина'
delivery status = '🚚 Статус заказа'
settings = '🌞 Настройка каталога'
orders = '🚚 Заказы'
questions = '? Вопросы'
@dp.message handler(IsAdmin(), commands='menu')
async def admin menu (message: Message):
  markup = ReplyKeyboardMarkup(selective=True)
  markup.add(settings)
  markup.add(questions, orders)
   await message.answer('Меню', reply markup=markup)
@dp.message handler(IsUser(), commands='menu')
async def user menu (message: Message):
  markup = ReplyKeyboardMarkup(selective=True)
  markup.add(catalog)
  markup.add(balance, cart)
  markup.add(delivery status)
   await message.answer('Меню', reply markup=markup)
```

sos

```
@dp.message handler(commands='sos')
async def cmd sos (message: Message):
  await SosState.guestion.set()
  await message.answer('В чем суть проблемы? Опишите как можно
детальнее и администратор обязательно вам ответит.',
reply markup=ReplyKeyboardRemove())
@dp.message handler(state=SosState.question)
async def process question (message: Message, state: FSMContext):
  async with state.proxy() as data:
       data['question'] = message.text
  await message.answer('Убедитесь, что все верно.',
reply markup=submit markup())
  await SosState.next()
@dp.message handler(lambda message: message.text not in
[cancel message, all right message], state=SosState.submit)
async def process price invalid (message: Message):
   await message.answer('Такого варианта не было.')
```

```
@dp.message handler(text=cancel message, state=SosState.submit)
async def process cancel (message: Message, state: FSMContext):
   await message.answer('Отменено!',
reply markup=ReplyKeyboardRemove())
   await state.finish()
@dp.message handler(text=all right message,
state=SosState.submit)
async def process submit (message: Message, state: FSMContext):
   cid = message.chat.id
  if db.fetchone('SELECT * FROM questions WHERE cid=?', (cid,))
== None:
       async with state.proxy() as data:
           db.query('INSERT INTO questions VALUES (?, ?)',
                    (cid, data['question']))
       await message.answer('Отправлено!',
reply markup=ReplyKeyboardRemove())
   else:
       await message.answer('Превышен лимит на количество
задаваемых вопросов.', reply markup=ReplyKeyboardRemove())
   await state.finish()
```

wallet

```
@dp.message_handler(IsUser(), text=balance)
async def process_balance(message: Message, state: FSMContext):
    await message.answer('Ваш кошелек пуст! Чтобы его пополнить
нужно...')
```

Ну и добавим стартовые обработчики в основной файл

```
@dp.message_handler(commands='start')
async def cmd_start(message: types.Message):
    markup = ReplyKeyboardMarkup(resize_keyboard=True)

markup.row(user_message, admin_message)

await message.answer('''Привет! **

Я бот-магазин по подаже товаров любой категории.
```

```
👘 Чтобы перейти в каталог и выбрать приглянувшиеся товары
возпользуйтесь командой /menu.
💰 Пополнить счет можно через Яндекс.кассу, Сбербанк или Qiwi.
 Возникли вопросы? Не проблема! Команда /sos поможет связаться
с админами, которые постараются как можно быстрее откликнуться.
🤝 Заказать похожего бота? Свяжитесь с разработчиком <а
href="#">Имя Фамилия</a>
  ''', reply markup=markup)
@dp.message handler(text=user message)
async def user mode (message: types.Message):
  cid = message.chat.id
   if cid in config.ADMINS:
       config.ADMINS.remove(cid)
   await message.answer('Включен пользовательский режим.',
reply markup=ReplyKeyboardRemove())
@dp.message handler(text=admin message)
async def admin mode(message: types.Message):
   cid = message.chat.id
   if cid not in config.ADMINS:
       config.ADMINS.append(cid)
   await message.answer('Включен админский режим.',
reply markup=ReplyKeyboardRemove())
```

Бот готов!