Technical Workflow

1 Home page:

The home created using Django html template and CSS

Template:

```
X File Edit Selection View Go ···
                                                              # main.css
                   o main.html M X
                                  urls.py
                                                upload.html
                                                               # table.css
                                                                             views.py
                                                                                           odit_task.html
                                                                                                           # edit_ta 🗓 🗓 …
      TaskGen > templates > ⇔ main.html
Q
            <!DOCTYPE html>
            <html lang="en":
            <head>
               <meta charset="UTF-8">
               <title>GenTask</title>
               {% load static %}
$
               <link rel="stylesheet" type="text/css" href="{% static 'css/main.css' %}">
品
            </head>
       10
11
               <div class="container">
Д
                   <h1 class="heading">Tasks from Meeting Minutes</h1>
       14
                   This Website is integrated with a Generative AI model capable of
                   processing and understanding text data. You can input the meeting minutes in a text format, either by uploading a file or entering text directly. 
       15
       17
                   18
       20
                   <button class="create-btn"><a href="{% url 'create_mom' %}" class="link">Create MoM</a></button>
       22
8
       24
            </body>
       25
       26
   Ln 9, Col 8 Spaces: 4 UTF-8 CRLF Django HTML @ Go Live 🖋 Prettier 🚨
```

Urls:

```
★ File Edit Selection View Go
                                                                                                                                       odit_task.html
                                                                                                                                                          views.py M
                                                                                                                                                                                                                            # edit_task.css ▷ ∨ Ⅲ ···
              EXPLORER
                                                           urls.py
                                                                                        upload.html M
            ∨ FINAL
                                                            TaskGen > GenApp > 🏺 urls.py > 🕪 urlpatterns

✓ TaskGen

                                                                        from django.urls import path
                                                                                                                                                                                                                                                       I care
  Q
                                                                        from . import views

✓ GenApp

                 > _pycache_
                                                                        urlpatterns = []
  path('',views.main,name='main_page'),
  path('upload/', views.upload_file, name='upload_page'),
  path('table/', views.table, name='table_page'),
  path('edit_task/<int:task_id>/', views.edit_task, name='edit_task'),
  path('download-excel/', views.download_excel, name='download_excel'),
  path('regenerate/', views.regenerate_tasks, name='regenerate_tasks'),
  path('create/', views.create_mom_name='create_mom').
                  > migrations
                 init_.py
                                                                6
                 admin.py
                                                                8
                 apps.py
                 form.py
                                                               10
                 models.py
                                                                                path('create/', views.create_mom, name='create_mom'),
path('add_task/', views.add_task, name='add_task'),
path('delete_task/<int:task_id>/', views.delete_task, name='delete_task'),
  Д
                 tests.py
                 urls.py
                  views.py
                                                               14
```

2 Meeting Minutes Input:

2.1 File input:

The file input page was created using Django form, html template, and model

```
File Edit Selection View Go ...
                                                                             # table.css
                                                                                                                                      # edit 😘 🗓 …
                                          urls.py
                                                           O upload.html M X
                                                                                                 views.py
                                                                                                                  odit_task.html
Ð
       TaskGen > templates > ◇ upload.html

1 <!DOCTYPE html>
              <html lang="en">
0
0
2
                   <meta charset="UTF-8">
                   <title>Upload Pdf</title>
                   <link rel="stylesheet" type="text/css" href="{% static 'css/upload.css' %}">
8
         9
               <div class="container">
                   / class= contealer /
<h1 class="heading">Upload a MoM file</h1>
Please upload a file format (<span class='file'>.pdf</span>, <span class='file'>.txt//
         11
12
Д
                        <form method ='post' enctype ="multipart/form-data">
                            {% csrf_token %}
{{form}}
         16
         18
19
20
                           <input type="submit" value = "Submit">
        21
                       <button class="back"><a class='link' href="{% url 'main_page' %}">Back</a></button>
8
                  </div>
         23
         26
      master* � ⊗ 0 <u>A</u> 0 № 0
                                                                                  Ln 23, Col 11 Spaces: 4 UTF-8 CRLF Django HTML @ Go Live 🖋 Prettier 🚨
```

Form:

```
File Edit Selection View Go ...
                                                              o table.html
                                                                             models.py
                                                                                             арря.ру
      EXPLORER
                            form.css
                                       add_task_form.html
                                                                                                            🕏 form.py 🗙
                                                                                                                            # ▷ ∨ □ …
                               TaskGen > GenApp > 🍨 form.py > ધ UploadMoM > ધ Meta > 🤌 fields
      FINAL
Q
                                     from \ \ django \ \ import \ \ forms

✓ GenApp

                                     from .models import MomFile,Task,CreateMoM
        > _pycache_
        > migrations
                                     class UploadMoM(forms.ModelForm):
        _init_.py
        admin.py
                                            model = MomFile
                                             fields = ('title', 'file',)
        apps.py
```

Model:

```
X File Edit Selection View Go ...
                                                                        apps.py
                                                                                                                                # ▷ ∨ □ …
       EXPLORER
                                         add_task_form.html
                                                                table.html
                                                                                models.py ×
                                                                                                                form.py
                              form.css
                                TaskGen > GenApp > ♥ models.py > ❤ MomFile > ♡ _str_
                                       from django.db import models
Q

✓ TaskGen

        ∨ GenApp
                                      # Create your models here.
class MomFile(models.Model):
         > _pycache_
         > migrations
         __init__.py
                                  6
                                           title = models.CharField(max_length = 80)
         admin.py
                                           file = models.FileField(upload_to='files/')
         apps.py
                                  8
         form.py
                                              ordering = ['title']
                                  10
         models.py
         tests.py
                                           def __str__(self):
         urls.py
                                             return f"{self.title}"
```

2.2 Text input:

By using django form, html template and CSS we can create a MoM input by entering text

Template:

```
File Edit Selection View Go ...
                                                                           create_MoM.html M X
       EXPLORER
                               nodels.py
                                            apps.py
                                                             form.py
                                                                              # upload.css
                                                                                              # createMoM.css
                                                                                                                                          t1 □ …
                                 TaskGen > templates > ↔ create_MoM.html
                                        <!DOCTYPE html>
Q
        > media
                                        <html lang="en">

✓ static\css

                                        <head>
         # add_task_form.css
                                            <meta charset="UTF-8">
         # createMoM.css
                                            <title>Create MoM</title>
                                            {% load static %}
k rel="stylesheet" type="text/css" href="{% static 'css/CreateMoM.css' %}">
         # edit_task.css
₽
         # table.css
品
                                   9
10
         # upload.css
        > TaskGen
                                            <h1 class="heading">Create Minutes of Meeting</h1>
                                   11
Д
                                   13
                                             <form method="post">
          add task form.html
                                                 % csrf token %}
{{ form.as_p }}
<button class="back"><a class='link' href="{% url 'main_page' %}">Back</a></button</pre>
                                   14
           create_MoM.html M
                                   15
          edit task.html
                                   16
                           М
                                   17
18
                                                 <button type="submit">Generate Tasks</button>
         table.html
         upload.html
                                        </div>
                                   19
20
        ■ db.sqlite3
        manage.py

≡ gitignore.txt

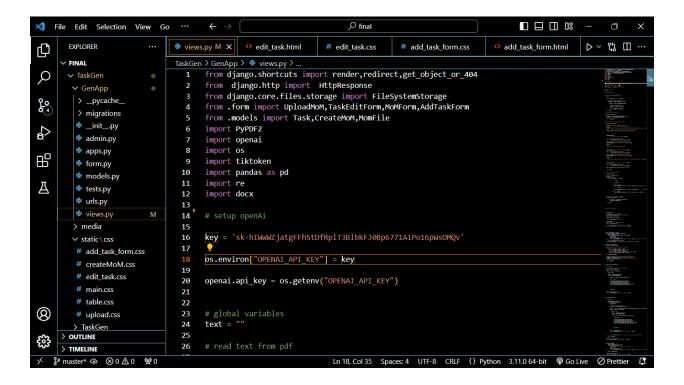
    README.md

     > OUTLINE
     > TIMELINE
    Ln 19, Col 7 Spaces: 4 UTF-8 CRLF Django HTML @ Go Live 🗸 Prettier 🚨
```

Form:

3 Generative Al Integration:

We integrate ChatGPT 3.5 turbo using OpenAl library



3.1 Text Understanding:

```
X File Edit Selection View Go ···
       EXPLORER
                                🕏 views.py M 🗙
                                                 edit_task.html
                                                                     # edit_task.css
                                                                                       # add_task_form.css
                                                                                                             add_task_form.html
                                                                                                                                   D ~ th □ ...
                                 TaskGen → GenApp → 💠 views.py > ..
Q

✓ TaskGen

                                   57

✓ GenApp

                                        # generate reply using GenAi (gpt 3.5 turbo)
         > _pycache_
                                        def reply_generation(text):
                                   60
         > migrations
                                            61
         __init__.py
₽
                                  62
         admin.py
                                  63
         apps.py
                                   64
                                            Create a table with the following headings: Name, Position, Task, Task Description, De
品
         form.py
                                   65
         models.py
                                   66
                                            \{\ensuremath{\mathsf{text}}\} . generate task descriptions that are clear and contextually
Д
         tests.py
                                   67
                                            relevant based on the information within the meeting minutes.
                                  68
69
70
         urls.py
         views.py
                                            messages.append(
         > media
                                                         {"role": "user", "content":prompt },
                                   72
         # add task form.css
                                   73
         # createMoM.css
                                            chat = openai.ChatCompletion.create(
                                  75
76
         # edit task.css
                                                        model="gpt-3.5-turbo", messages=messages
         # main.css
                                            reply = (chat["choices"][0]["message"]["content"])
messages.append({"role": "assistant", "content": reply})
                                   77
         # table.css
                                   78
         # upload.css
        > TaskGen
                                            prompt = f"""
                                   80
     > OUTLINE
                                   81
                                   82
    P master* → ⊗ 0 🛦 0
                                                                       Ln 58, Col 45 Spaces: 4 UTF-8 CRLF {} Python 3.11.0 64-bit @ Go Live Ø Prettier 🗘
```

3.2 Action Item Generation:

Using Django model, html and CSS we can create table for task

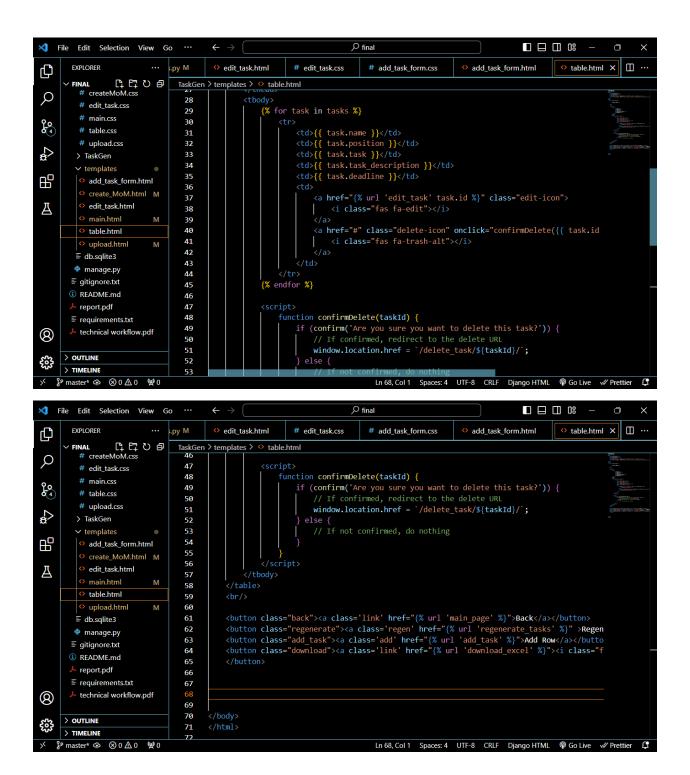
```
File Edit Selection View Go ...
                                                                              EXPLORER
                                           edit_task.html
                                                               # edit_task.css
                                                                                   # add_task_form.css
                                                                                                                                   .pv M
                                                                                                          add task form.html
Ф
          MAL 「中口 ひ 白
# createMoM.css
                                  TaskGen > templates >
                                          <!DOCTYPE html>
Q
         # edit_task.css
                                          <html lang="en
         # main.css
04
                                               <meta charset="UTF-8">
         # table.css
                                               <title>Task Table</title>
         # upload.css
                                              {% load static %}
rel="stylesheet" type="text/css" href="{% static 'css/table.css' %}">
rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.
2
         > TaskGen

    templates

유
          add_task_form.html
            create_MoM.html M
                                    11
12
          edit_task.html
Д
                                               <div class='heading'>
           main.html
           table.html
                                    14
15
16
                                                   <h1>Task Table</h1>
           upload.html

■ db.sqlite3

        manage.py
       ≡ gitignore.txt
                                    18
19
       ① README.md
                                    20
        report.pdf
                                                            Name
       22
23
24
                                                            Position
        technical workflow.pdf
                                                            Task
Task Description
0
      > OUTLINE
                                    25
26
                                                            Deadline
      > TIMELINE
    $° master* � ⊗ 0 🛦 0
                                                                                    Ln 68, Col 1 Spaces: 4 UTF-8 CRLF Django HTML @ Go Live 🗸 Prettier 🚨
```



4 User Review and Confirmation:

4.1 Edit task:

The page for editing the task created using Django form, model, html, CSS Template:

```
File Edit Selection View Go ···
                                                                         .ру М
                                       oedit_task.html ×
                                                                                                  add_task_form.html
                                                                                                                         table.html
                                                                                                                                        Ⅲ …
       EXPLORER
                                                          # edit_task.css
                                                                            # add_task_form.css
                                TaskGen > templates > ↔ edit_task.html
         # createMoM.css
                                       <!DOCTYPE html>
Q
         # edit_task.css
                                      <html lang="en">
         # main.css
                                          <meta charset="UTF-8">
         # table.css
                                           <title>Edit Task</title>
         # upload.css
                                           {% load static %}
                                  6
         > TaskGen
                                          k rel="stylesheet" type="text/css" href="{% static 'css/edit_task.css' %}">

✓ templates

                                  8
B
         add_task_form.html
          create_MoM.html M
                                  10
                                           <h1>Edit Task</h1>
                                           <form method="post">
          edit task.html
                                               {% csrf_token %}
{{ form.as_p }}
                                  12
          main.html
         table.html
                                               <button class='btn'><a class='link' href="{% url 'table page' %}">Back</a></button</pre>
                                  14
         upload.html
                                              <button type="submit">Save

≡ db.sqlite3

                                  16
        manage.py
                                  17
                                       </body>
       ≡ gitignore.txt
                                  18
                                  19
      ① README.md
       report.pdf
       ≡ requirements.txt
       Lechnical workflow.pdf
      > OUTLINE
    Ln 15, Col 44 Spaces: 4 UTF-8 CRLF Django HTML 🖗 Go Live 🛷 Prettier 🕻
```

Views:

```
edit task.html
           EXPLORER
                                                 • views.py M ×
                                                                                                       # edit task.css
                                                                                                                                  # add task form.css
                                                                                                                                                                    add task form.html
                                                                                                                                                                                                     ⊳ ∼ ಚಿ 🎞 …
Ð
                                                  TaskGen > GenApp > 🏶 views.py >
0
                                                  164
165
166
167
168
169
170
171
172
173
174
175
176
              form.pymodels.py
                                                                                                        om the Task model
                                                                   tasks = Task.objects.all()
%
              urls.py
                                                                  # Pass the tasks as a context variable to the template
return render(request, 'table.html', {'tasks': tasks})
2
              > media
               static\css
品
              # add_task_form.css
              # createMoM.css
                                                                  edit_task(request, task_id):
task = get_object_or_404(Task, id=task_id)
if request.method == 'POST':
    form = TaskEditForm(request.POST, instance=task)
    if form.is_valid():
        form.save()
                main.css
                table.css
                                                  178
179
180
181
182
183
184
185
               TaskGen
                add task form.html
                                                                               Tolum.save(')
tasks = Task.objects.all()
return render(request, 'table.html', {'tasks': tasks}) # Redirect to the table.
                 edit_task.html
                                                                        ::
form = TaskEditForm(instance=task)
urn render(request, 'edit_task.html', {'form': form, 'task': task})
                                                  186
187
188
189
         > OUTLINE
         > TIMELINE
                                                           def download_excel(request):
             ster* � ⊗ 0 <u>A</u> 0
                                                                                                          Ln 58, Col 45 Spaces: 4 UTF-8 CRLF () Python 3.11.0 64-bit @ Go Live O Prettier
```

4.2 Add task:

Views:

```
≺ File Edit Selection View Go ···
                                                                            EXPLORER

₱ views.py M ×

                                                   o edit_task.html
                                                                       # edit_task.css
                                                                                         # add_task_form.css
                                                                                                                add_task_form.html
                                                                                                                                      ▷ ~ th □ …
D
        FINΔI
                                  TaskGen > GenApp > ♠ views.py > ..
Q
                                  295
         form.py
          models.py
                                  296
                                         def add task(request):
                                  297
0
4
          tests.py
                                              if request.method == 'POST':
                                  298
          urls.py
                                                  form = AddTaskForm(request.POST)
                                  299
         views.py
                                                  if form.is_valid():
                                   300
         > media
                                                      # Save the new Task instance to the database
                                  301
品

✓ static \ css

                                   302
                                                      form.save()
                                                      tasks = Task.objects.all()
return render(request, 'table.html', {'tasks': tasks}) # Redirect to your tab
                                   303
          # add task form.css
                                   304
          # createMoM.css
Д
                                   305
          # edit task.css
                                                form = AddTaskForm()
                                   306
          # main.css
                                  307
          # table.css
                                             context = {'form': form}
                                   308
                                             return render(request, 'add_task_form.html', context)
          # upload.css
                                  309
                                  310
         > TaskGen
                                  311
                                  312
          add_task_form.html
                                  313
                                         def delete_task(request, task_id):
          create_MoM.html M
                                   314
                                              task = get_object_or_404(Task, pk=task_id)
          odit_task.html
                                              task.delete()
          o main.html
                                   316
                                              tasks = Task.objects.all()
8

    table.html

                                             return render(request, 'table.html', {'tasks': tasks})
                                   317
                                  318
      > OUTLINE
                                  319
      > TIMELINE
                                   320
                                         def extract text from docx(file path):
    ያ master* � ⊗ 0 🛦 0
                                                                        Ln 58, Col 45 Spaces: 4 UTF-8 CRLF {} Python 3.11.0 64-bit @ Go Live Ø Prettier C
```

Template:

```
X File Edit Selection View Go

    add_task_form.html M X

        EXPLORER
                                  views.py M
                                                   o edit_task.html
                                                                        # edit_task.css
                                                                                           # add_task_form.css
                                                                                                                                               ໝ Ⅲ ...
                                   TaskGen > templates > ↔ add_task_form.html
       FINAL
          views.py
                                          DOCTYPE html>
Q
         > media
                                          <html lang="en

✓ static\css

                                              <meta charset="UTF-8">
          # add_task_form.css
                                              <title>Add Task</title>
          # createMoM.css
                                              {% load static %}
$
          # edit task.css
                                              <link rel="stylesheet" type="text/css" href="{% static 'css/add_task_form.css' %}">
          # main.css
                                     8
品
          # table.css
                                    10
                                              <h1>Add Task</h1>
          # upload.css
                                               <form method="post">
Д
         > TaskGen
                                                   {% csrf_token %}
{{ form.as_p }}
<button class="back"><a class='link' href="{% url 'table_page' %}">Back</a></butto</pre>
                                    12
           add_task_form.h... M
                                    14
                                                   <input type="submit" value="Add Task">
            create MoM.html M
                                    15
           edit_task.html
                                    16
                            М
           > table.html
                                    19
          upload.html
                            М
         = db.sqlite3
        manage.py
       ≡ gitignore.txt
(2)

    README.md

      > OUTLINE
      > TIMELINE
    ழு master* ⇔ ⊗ 0 <u>∧</u> 0 இ 0
                                                                                     Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Django HTML @ Go Live 🗸 Prettier 🚨
```

4.3 Delete task:

We use python fuction for delecting a task from django model

```
XI File Edit Selection View Go …
                                                                                                                      urls.py
                                                                      # table.css
                                                                                       🕏 views.py M 🗙
                                                                                                                            # edit_tas ▷ ∨ 🖏 🗓 …
       EXPLORER
                                                  upload.html M
                                                                                                         odit_task.html
Ð
       FINAL
                                  TaskGen > GenApp > 🏺 views.py > .
                                  305

✓ TaskGen

                                                 form = AddTaskForm()
                                  306
         ✓ GenApp
                                  307
         > _pycache_
                                             context = {'form': form}
return render(request, 'add_task_form.html', context)
6 5
                                  308
          > migrations
                                  309
         __init__.py
                                  310
         admin.py
                                  311
         apps.py
品
                                         def delete_task(request, task_id):
         form.py
                                  314
                                             task = get_object_or_404(Task, pk=task_id)
         models.py
                                             task.delete()
         tests.py
                                             tasks = Task.objects.all()
                                  316
         urls.py
                                             return render(request, 'table.html', {'tasks': tasks})
                                  317
         views.py
                                  318
                                  319
         > media
                                         def extract text from docx(file path):
         ∨ static\css
                                  320
                                  321
         # add_task_form.css
                                             doc = docx.Document(file_path)
                                  322
         # createMoM.css
         # edit_task.css
                                             text = ""
                                  324
         # main.css
                                  325
          # table.css
                                  326
                                              for paragraph in doc.paragraphs:
8
                                  327
                                                text += paragraph.text + '\n'
         # upload.css
                                  328
         > TaskGen
                                  329
                                             return text
     > OUTLINE
                                  330
     > TIMELINE
         ster* � ⊗ 0 <u>Λ</u> 0
                                                                        Ln 58, Col 45 Spaces: 4 UTF-8 CRLF {} Python 3.11.0 64-bit @ Go Live
```

4.4 Regenerate task:

Using URLS mapping we regenerate task

```
X File Edit Selection View Go
                                                                                                             urls.py
                                                                                                                          views.py M X
                                                TaskGen > GenApp > ♥ views.py > ♥ regenerate_tasks
 Q
                                                211
212
213
214
215
216
                                                           def regenerate_tasks(request):
                                                                global text
# Delete all existing tasks from the Task model
Task.objects.all().delete()
tokens = number_of_tokens(text)
              > _pycache
 90
              > migrations
              __init__.py
 ₽
              admin.py
                                                217
218
              apps.py
                                                                 if tokens <3500:
品
              form.py
                                                 219
220
                                                                      reply = reply_generation(text)
table = create_table(reply)
              tests.py
                                                221
222
223
224
              urls.py
                                                                       for row_idx in range(len([*table.values()][0])):
                                                                             task = Task(
             > media

✓ static\css

                                                                            name=table[[*table.keys()][0]][row_idx],
position=table[[*table.keys()][1]][row_idx],
task=table[[*table.keys()][2]][row_idx],
task_description=table[[*table.keys()][3]][row_idx],
deadline=table[[*table.keys()][4]][row_idx]
                                                226
227
228
              # add_task_form.css
              # createMoM.css
              # edit_task.css
                                                229
230
231
232
233
                                                                task.save()
tasks = Task.objects.all()
 0
              # upload.css
                                                                 return render(request, 'table.html', {'tasks': tasks})
                                                 234
                                                                                                     Ln 211, Col 31 Spaces: 4 UTF-8 CRLF {} Python 3.11.0 64-bit @ Go Live Ø Prettier
```

5 Task Creation:

By using Django, model and pandas created a download option for getting Excel file output

