**SUMMARIZATION APPLICATION**

**USED TOOLS**

IDE- Visual Studio Code

Front End-React

Backend-Django

GenAI- deepseek, Llama, Gemini(select choice)

**WORK FLOW OF APPLICATION**

Login page as home page

When click forgot password link

When click Sign up link

When enter username and password

If user name and password is correct

Required user mail page will appear

Sign up form page will appear

No

Yes

If enter existence mail

No

Yes

Error Message

Summarization page will appear

Link send to your respective mail

Error message appear

If enter the summarization text and reduced percentage

Sign out

If enter correct details

Click link and reset password correctly

No

Yes

No

Yes

Login page will appear

Error message will appear

No

Yes

Error messagee will appear

Login page will appear

Summarized text will appear

Login page will appear

Error messagee will appear

**TEST CASES**

**LOGIN PAGE**

Enter correct user name and password-Appear summarization page

Enter correct user name wrong password-Error message

Enter wrong user name correct password- Error message

Enter wrong user name wrong password- Error message

**SIGN UP PAGE**

Enter already existence user name-Error message

Enter already existence user mail-Error message

Enter already existence user mail and user name-Error message

Enter password characters count less than 8-Error message

Enter password not contain any uppercase -Error message

Enter password not contain any lowercase -Error message

Enter password not contain any special character-Error message

Enter not matching password and confirmed password-Error message

Enter not valid email-Error message

Enter valid data-Success message and login page appear

**SUMMARIZATION PAGE**

Enter plain Text with extra spaces and lines – It automatically preprocesses text

Enter percentage less than 20- It takes as minimum 20

Enter percentage 100- It takes as maximum 99.9

**REFRESH PAGE**

Refresh page- Token refreshed still access to summarization page

User Authentication- JWT Authentication

Summarization test

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Text | Percentage | Expected Word count | Gemini  Actual | Llama | deepseek |
| 1 | 20 | 61 | 76-P | 48-P | 165-F |
| 30 | 92 | 105-P | 78-P | 242-F |
| 40 | 122 | 117-P | 107-P | 106-P |
| 50 | 153 | 110-F | 146-P | 140-P |
| 60 | 184 | 152-F | 154-F | 165-P |
| 70 | 214 | 147-F | 210-P | 40-F |
| 80 | 245 | 162-F | 186-F | 267-P |
| 90 | 276 | 195-F | 211-F | 169-F |
| 2 | 20 | 49 | 52-P | 36-P | 85-F |
| 30 | 73 | 69-P | 68-P | 100-F |
| 40 | 98 | 81-P | 94-P | 139-F |
| 50 | 122 | 105-P | 106-P | 230-F |
| 60 | 147 | 101-F | 130-P | 216-F |
| 70 | 171 | 135-F | 149-P | 182-P |
| 80 | 196 | 125-F | 175-F | 155-P |
| 90 | 220 | 137-F | 184-F | 160-F |
| 3 | 20 | 48 | 54-P | 32-P | 184-F |
| 30 | 73 | 74-P | 52-F | 119-F |
| 40 | 97 | 84-P | 90-P | 123-F |
| 50 | 122 | 96-F | 101 | 164-F |
| 60 | 146 | 106-F | 121 | 209-F |
| 70 | 170 | 120-F | 140 | 158-F |
| 80 | 195 | 127-F | 181 | 214-P |
| 90 | 219 | 123-F | 174 |  |
| 4 |  |  |  | | |

Feedback of each model