



NoCap: Fact Checking with AI Milestone 3

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Milestone 3 Matrix

Task	Completion	Thomas	Anthony	Josh	Varun
1. Prompt engineering	75%	20%	0%	20%	60%
2. Get a basic score of an article	100%	0%	0%	0%	100%
3. Start process to break text down into tokens	100%	0%	0%	50%	50%
4. Develop the backend database	80%	0%	0%	100%	0%
5. Article Report/Publisher Cards	100%	0%	50%	50%	0%
6. Article meta data connection	50%	15%	15%	70%	0%

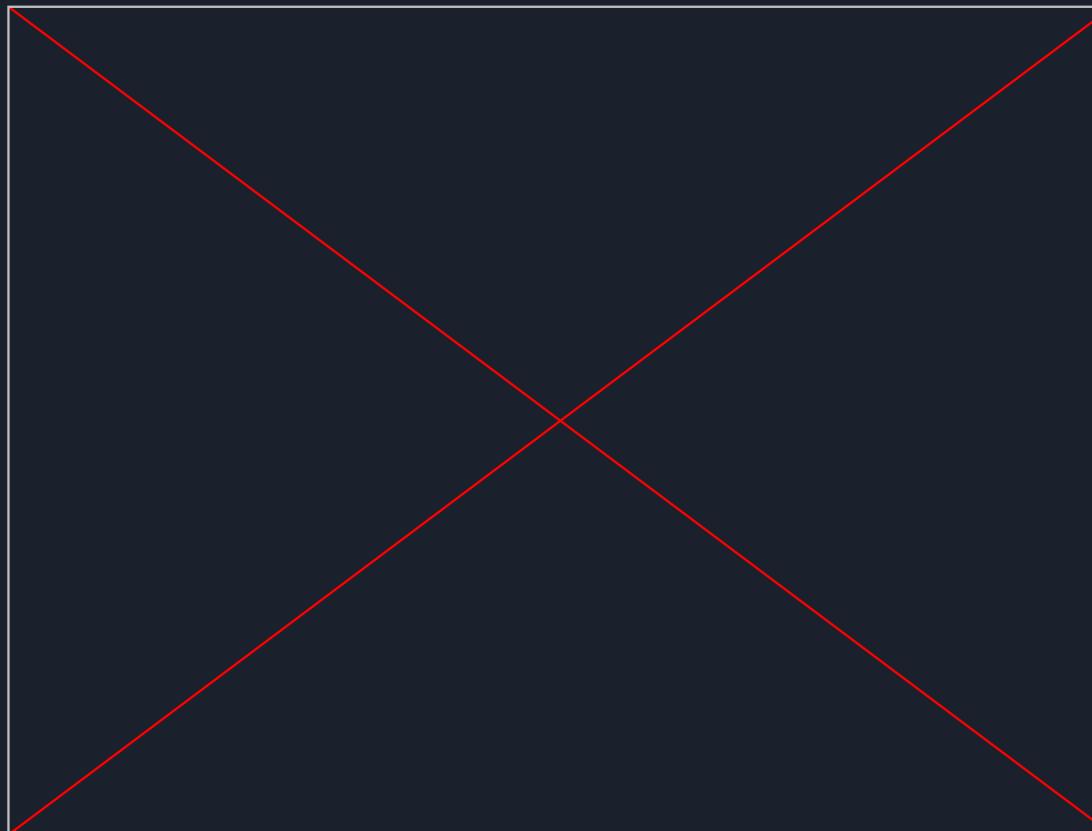
Prompt Engineering

- Consistent Grading - by telling the model how to judge a website step by step, we can get close to repeatable scores
- We can outline the criteria and define what “bias” actually means
- By structuring the prompt, we get back both a numerical score and its bias report
- Gives the model direction, without a understandable prompt, the AI model would just output whatever it feels like, our prompt forces it to look at: bias, tone, claims, and evidence.

```
system_instruction = (  
    "You are a strict fact-checking assistant. Your job is to evaluate how factually "  
    "accurate an article is. You should:\n"  
    "1. Check for logical consistency.\n"  
    "2. Note any claims that contradict widely established facts.\n"  
    "3. Ignore writing tone and style. Only judge factual correctness.\n\n"  
    "Return ONLY a JSON object in exactly this format:\n"  
    "{\n"  
    '    "score": <integer between 0 and 100>,\n'  
    '    "explanation": "<1-3 sentences explaining the score>\"\n'  
    "}\n"  
    "Do NOT include any additional text outside this JSON."  
)  
  
user_prompt = (  
    "Evaluate the factual accuracy of the following article text:\n\n"  
    f"{{article_text}}\n\n"  
    "Reply ONLY with the required JSON."  
)
```



Basic Article Score





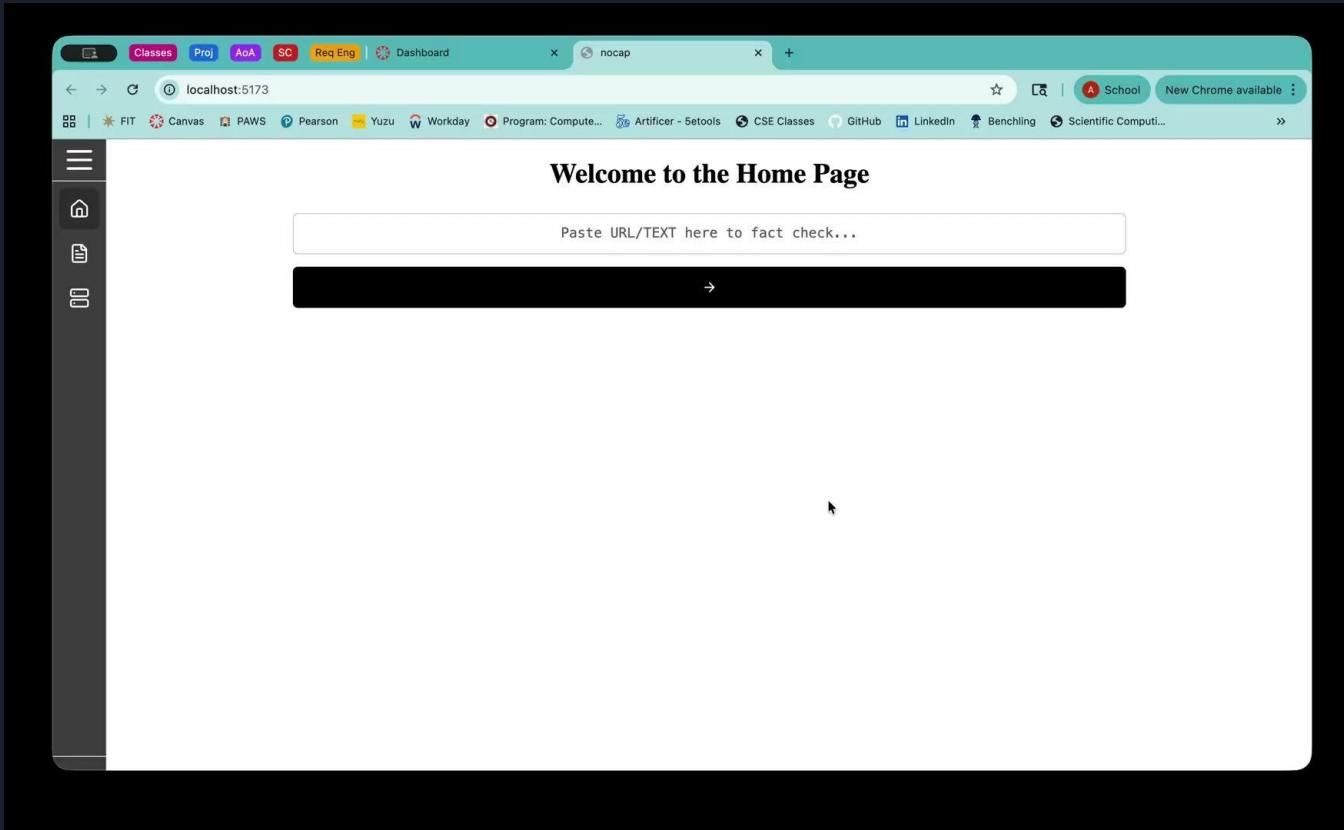
Break down text into tokens

- We can scrape the content of an article
- The text content is then broken down and fed to the model

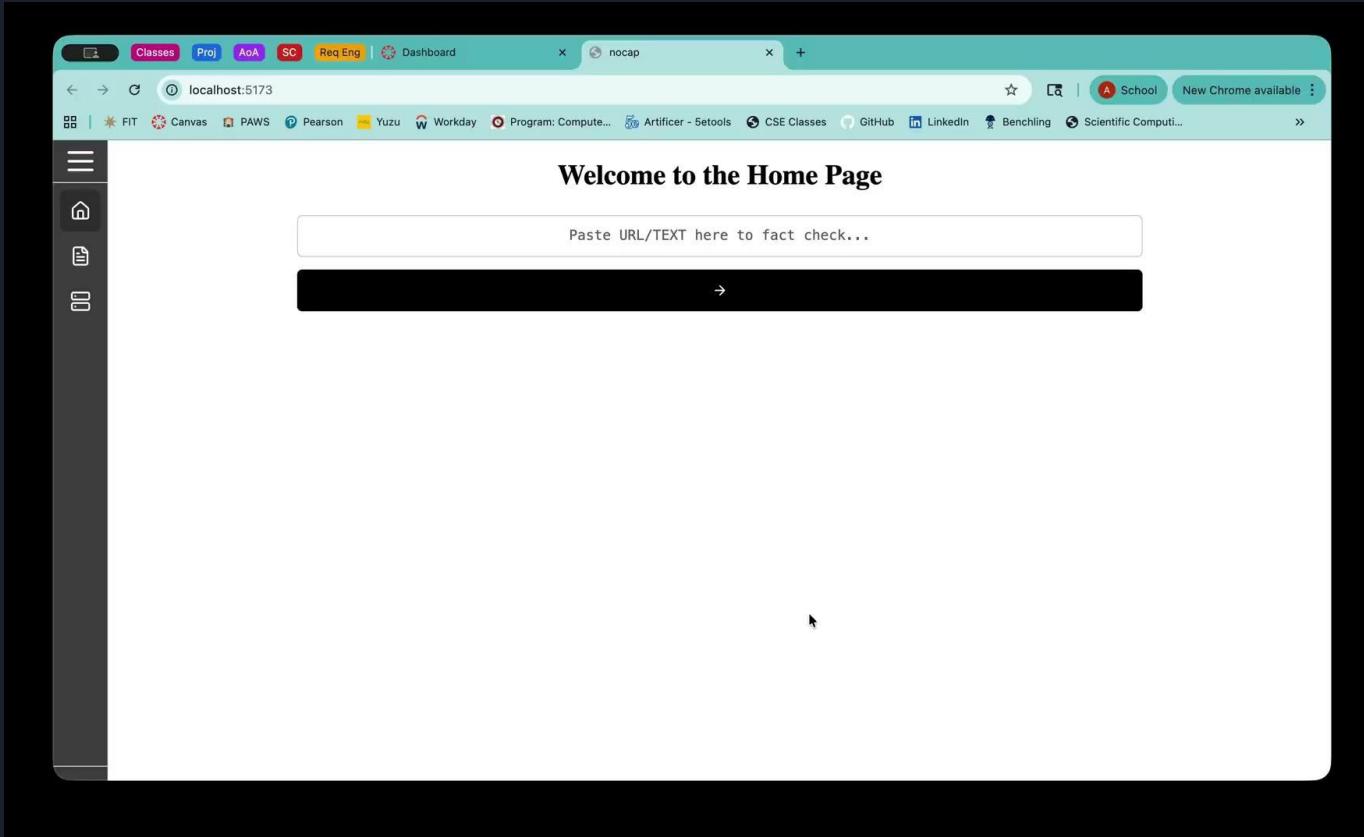
Backend Database

```
1 import { type ClientSchema, a, defineData } from '@aws-amplify/backend';
2
3 const schema = a.schema({
4   Reports: a
5     .model({
6       articleTitle: a.string(),
7       articleAuthor: a.string(),
8       articlePublisher: a.string(),
9       articleDate: a.datetime(),
10      articleURL: a.url(),
11      reportDate: a.datetime(),
12      reportScore: a.integer(),
13      reportSummaryReference: a.string(),
14      reportBodyReference: a.string(),
15    })
16    .authorization((allow) => [allow.publicApiKey().to(["read", "create", "delete"])])) // temporatily like this
17  });
18
19 export type Schema = ClientSchema<typeof schema>;
20
21 export const data = defineData({
22   schema,
23   authorizationModes: {
24     defaultAuthorizationMode: 'apiKey',
25     apiKeyAuthorizationMode: {
26       expiresInDays: 30
27     }
28   }
29 });
30
```

Article Report/Publisher Cards



Article Meta Data Connection



Milestone 4 Matrix

Task	Thomas	Anthony	Josh	Varun
1. Prompt Engineering	0%	0%	50%	50%
2. Improve model output	0%	0%	50%	50%
3. Show default home page cards	50%	50%	0%	0%
4. Article data connection to report page via input	30%	0%	0%	70%
5. Create logo and branding	50%	50%	0%	0%
6. Chrome extension	50%	50%	0%	0%