

# Flashcards

Group 21

Computer Engineering Essentials  
Final Project





# Agenda



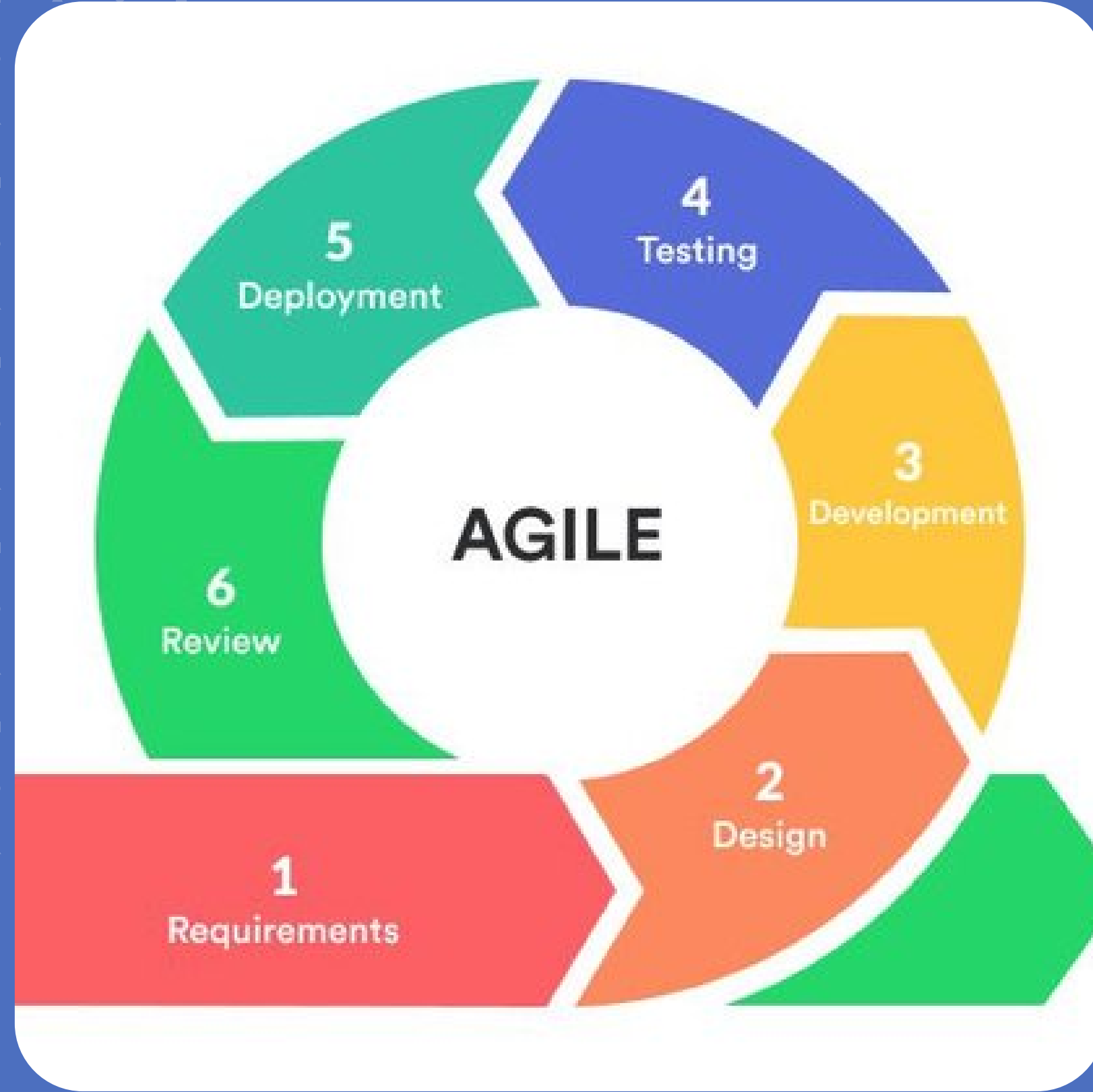
PROJECT TIMELINE



CODE OVERVIEW



APPLICATION DEMO



# Software Development Cycle

# Project Timeline

The plan and timeline  
for this website



12



14



16

18

20

Planing & UI

Frontend coding (html & css)

Firebase

Backend Coding  
(Javascript)

Database  
Design

April



Backend Coding  
(Javascript)

Maintain & Debug

Testing&Deploy

  
Presentation





# First Meet: Planning & Requirement

We want to do Flashcards application

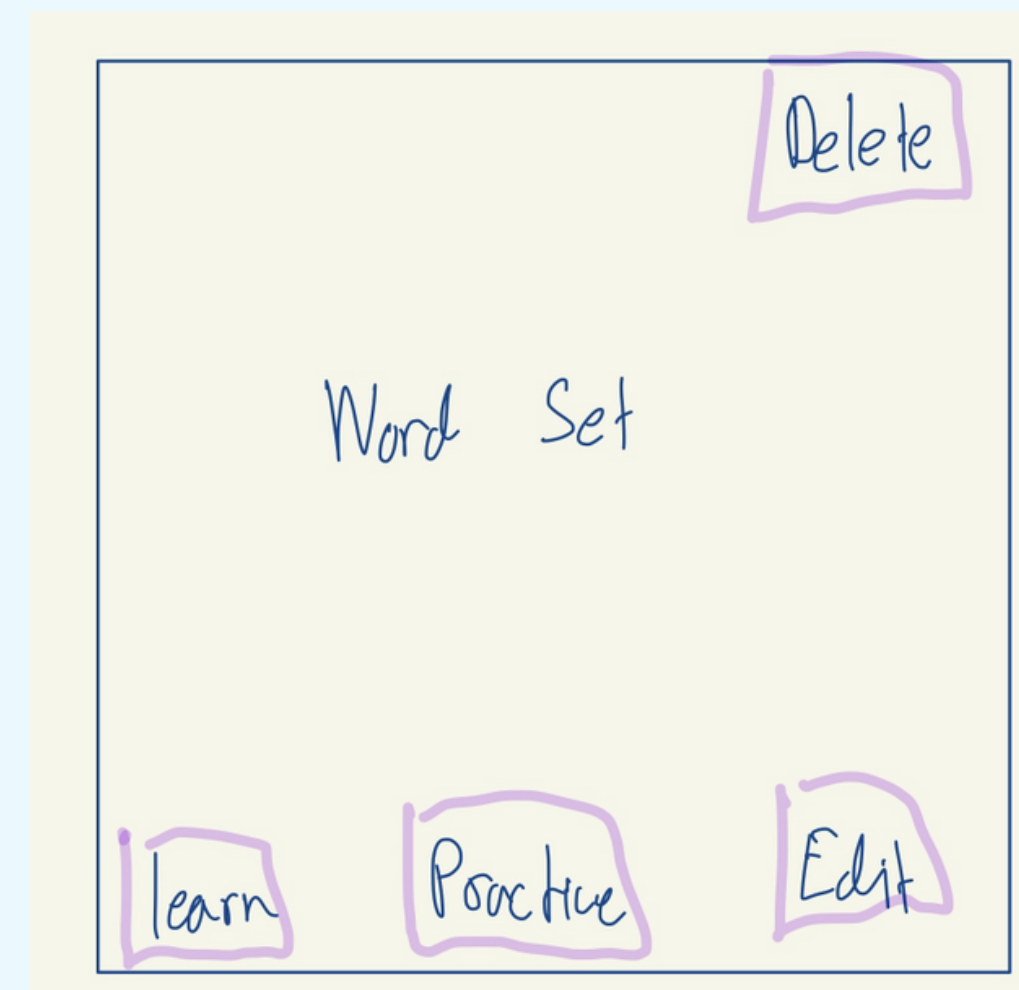
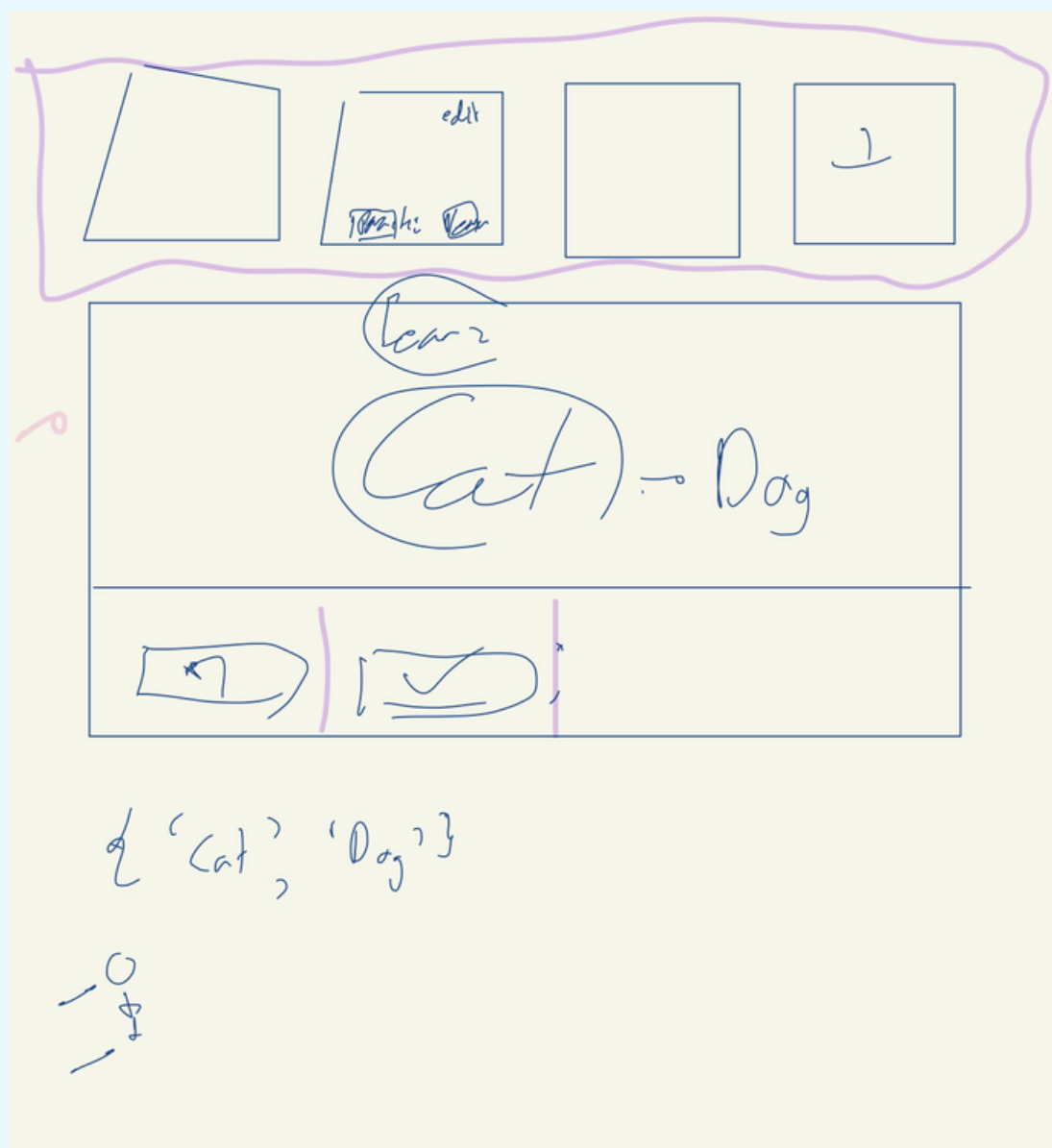
## USER CAN

- ★ **Add and Delete set**  
add and delete their lists of words.
- ★ **Delete word**  
delete specific word in the list

## APPLICATION HAVE

- ★ **Learning mode**  
review every word one-by-one
- ★ **Practice mode**  
answer questions with score report

# UI DESIGN ON SCRATCH



# UI DESIGN DRAFT 1



- ฟ้า #E1F2FC
- คราม #BBCBFF
- ฟ้าน้ำเงิน #31A1FF
- ส้ม #EF8A20
- เหลือง #FFB247
- แดงน้ำตาล #863E30
- ครีม #FBDEBE
- น้ำเงิน #002060

My set, Learning part, Practice part

Color Theme



# Development

An explanation of our code in each part



HTML



CSS



JS



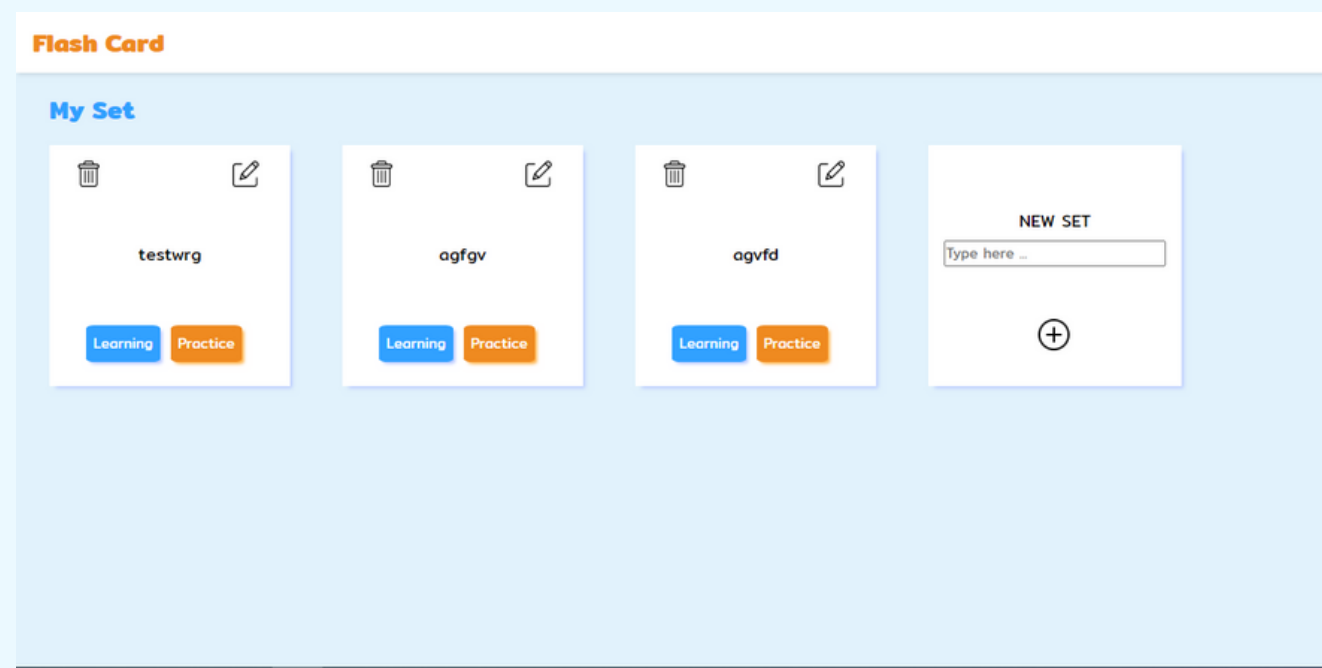
FIRESTORE DATABASE



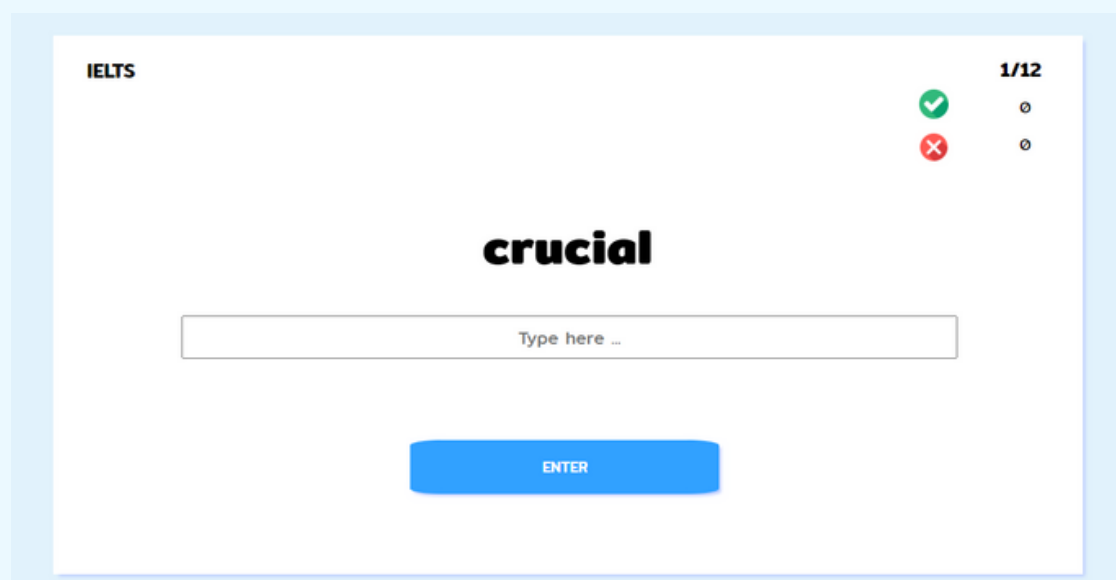
GITHUB REPOSITORY



# ★ INDEX.HTML



```
<!-------section all sets----->
<div class="allset" id="mySet">
  <h2 id="mysettextbox"></h2>
  <div class="container" id="container"></div>
</div>
<!-------end of section - all sets----->
<div class="allset" id="mySet">
  <h2 id="topic"></h2>
</div>
<div id="topicbody">
  <table id="content"></table>
</div>
```



Word	Meaning	
crucial	สำคัญ	delete
contemplate	ครุ่นคิด	delete
compulsory	ที่บังคับ	delete
clench	กำแน่น	delete
coincide	เกิดขึ้นพร้อมกัน	delete
conviction	ความเชื่อมั่น	delete
convey	ถ่ายทอด	delete
convene	ชุมนุม	delete
calamity	เหตุการณ์เลวร้าย	delete
clog	กีดขวาง	delete
complexion	ผิว	delete
consumerism	บริโภคนิยม	delete
		Add

# ★ SCRIPT.JS

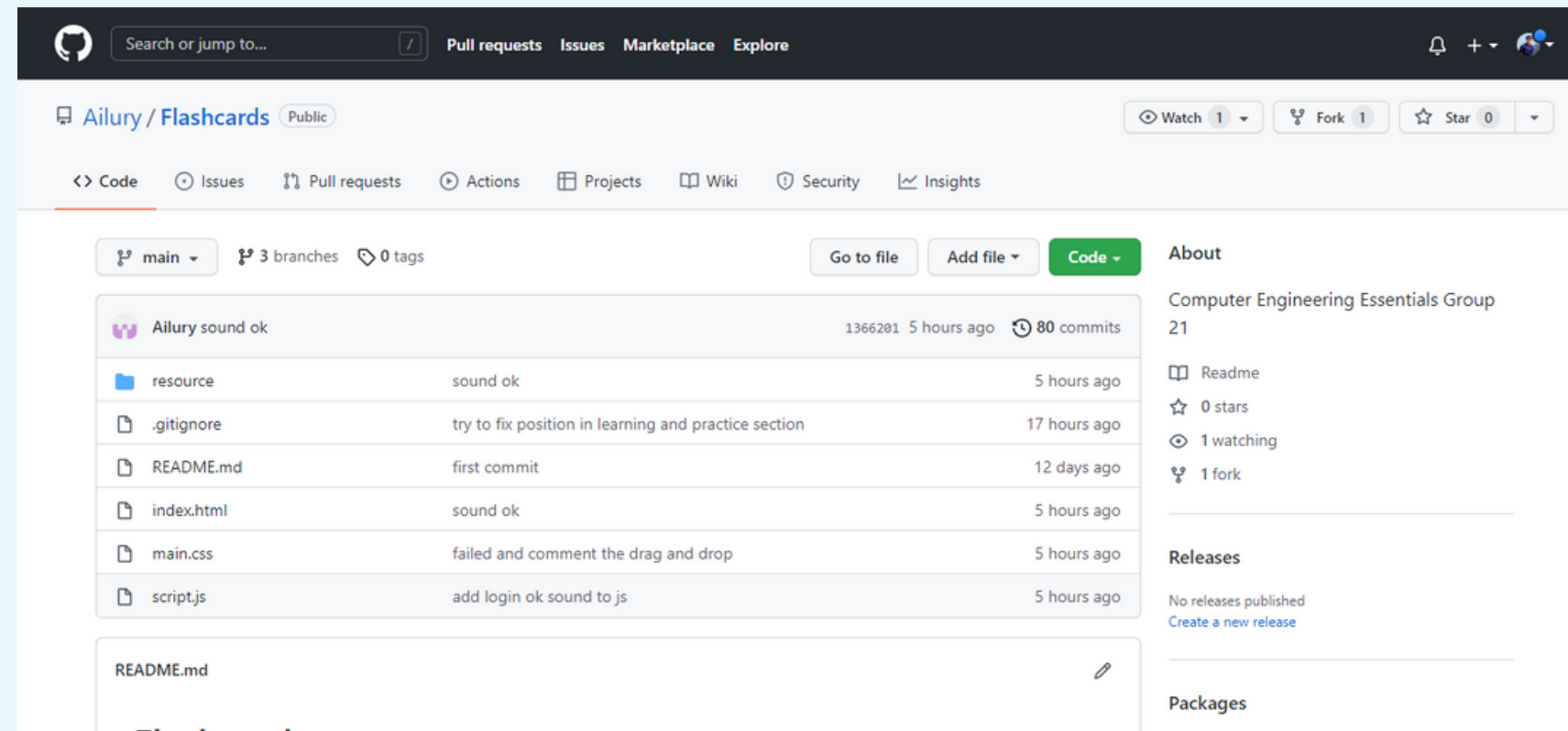
```
43  //-----Login-----
44
45  > async function login(){ ...
84  }
85
86  //-----My set-----
87
88  > async function genMySet(user){ ...
113 }
114
115 > async function genSet(name,id){ ...
138 }
139
140 > async function createSet(user){ ...
182 }
183
184 > async function deleteSet(setid){ ...
212 }
213
214 > async function editSet(setid){ ...
219 }
220
221 > async function changeState(){ ...
239 }
240 //-----Generate Learning & Practice HTML-----
241 > async function genLearningSection(setid){ ...
302 }
303
304 > async function genPracticeSection(setid){ ...
389 }
```

```
391 //-----Learning & Practice onClick function-----
392 //when click next item button in learning section
393 > async function nextItem(setid, index){ ...
409 }
410
411 //when click previous item button in learning section
412 > async function prevItem(setid, index){ ...
428 }
429
430 //when click enter to check answer in practice section
431 > function checkAnswer(setid, index){ ...
434 }
435
436 //checkAnswer function automatically call this function immediately
437 > async function calculateScore(setid, index){ ...
454 }
455
456 //invoked automatically after checkAnswer function done
457 > async function nextQuestion(setid, index){ ...
473 }
474
475 //invoked when practice set last item is done
476 > async function practiceDone(fullscore) { ...
490 }
```

```
492 //-----Table-----
493 > async function gentable(setid){ ...
537 }
538
539 > async function addItem(setid) { ...
548 }
549
550 > async function deleteItem(setid,value) { ...
577 }
578
579 > async function addnewitem(setid){ ...
615 }
616
617 > async function addnewiteminit(setid,word, meaning,docid){ ...
641 }
642
643 window.login = login;
```

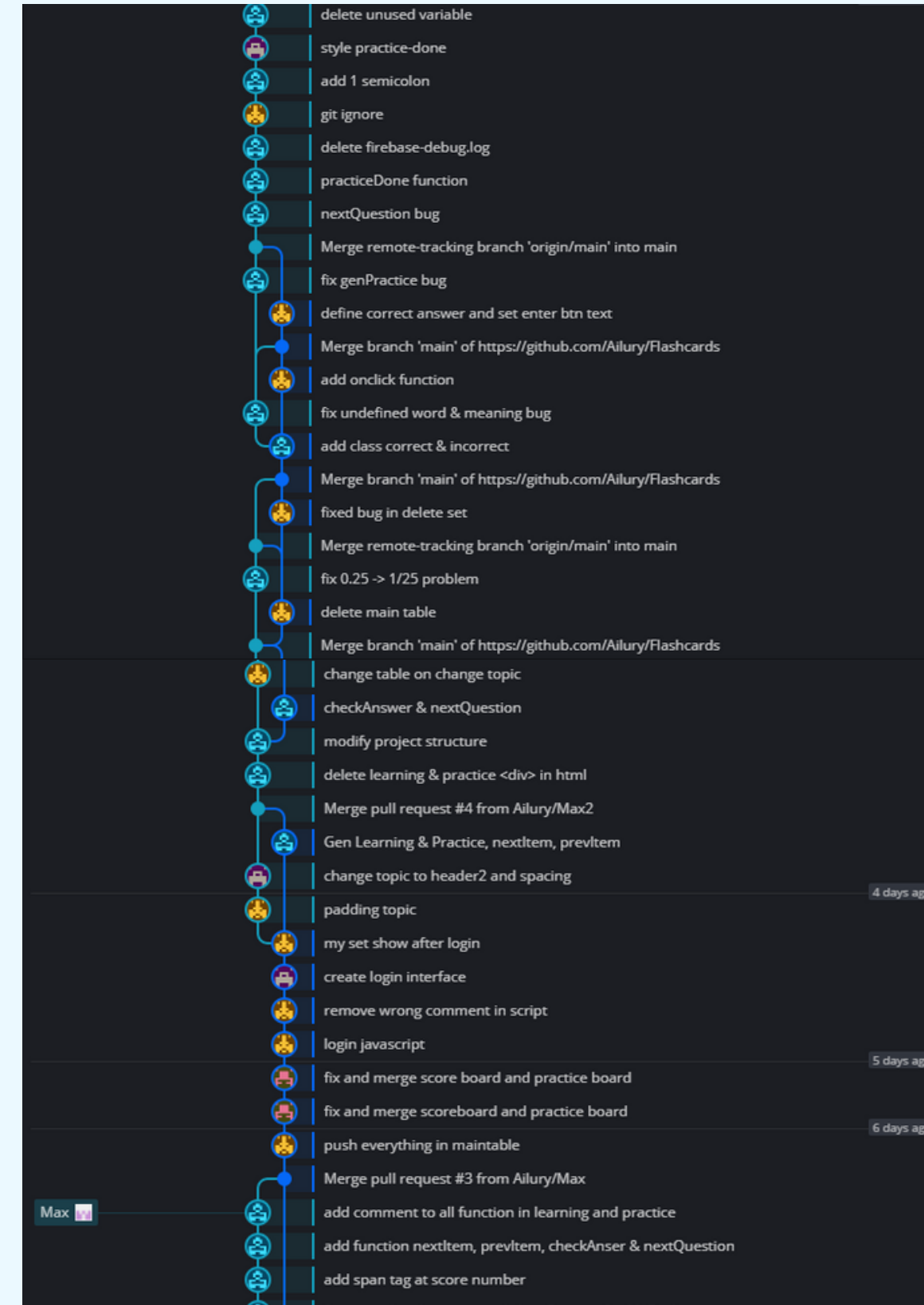


# GITHUB REPOSITORY

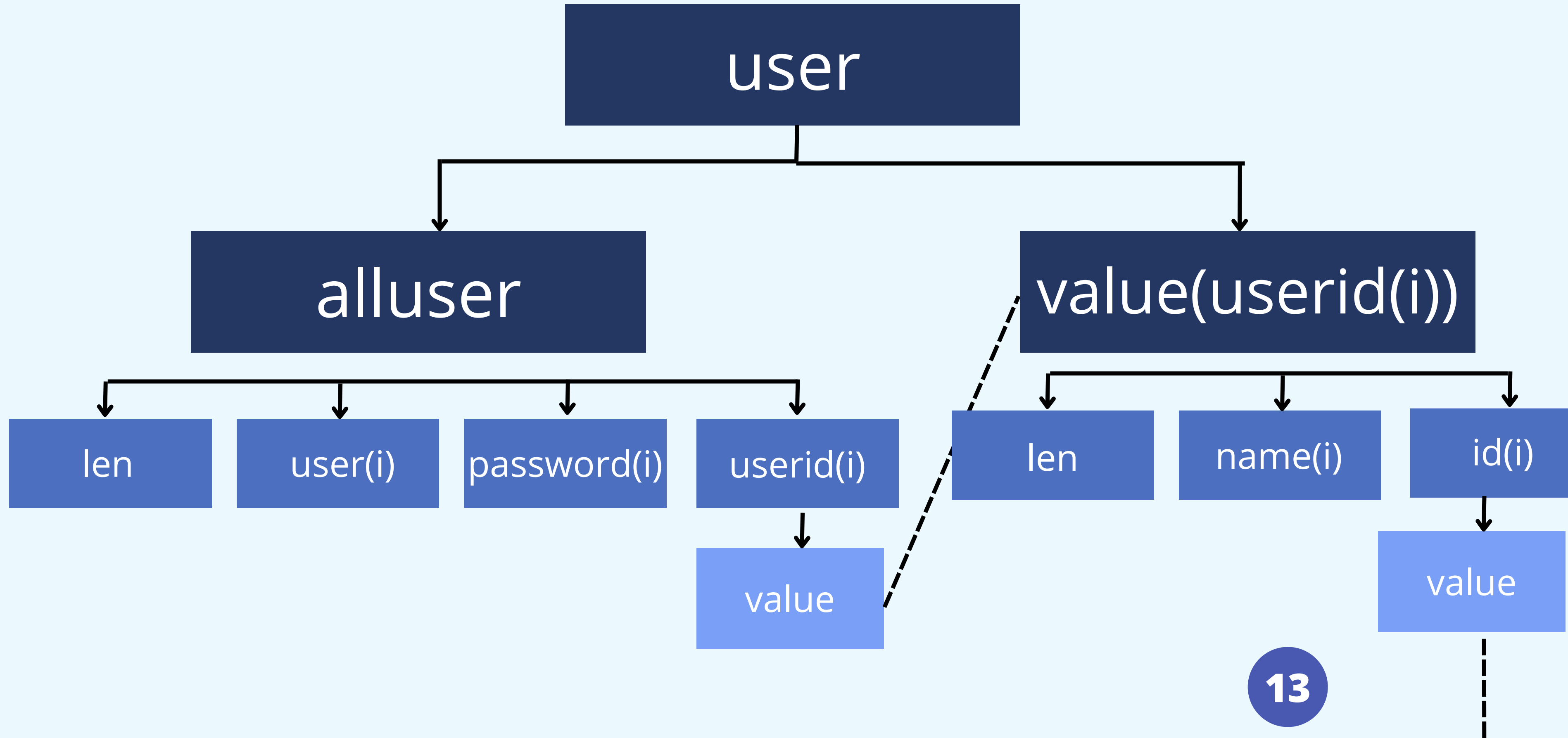


URL

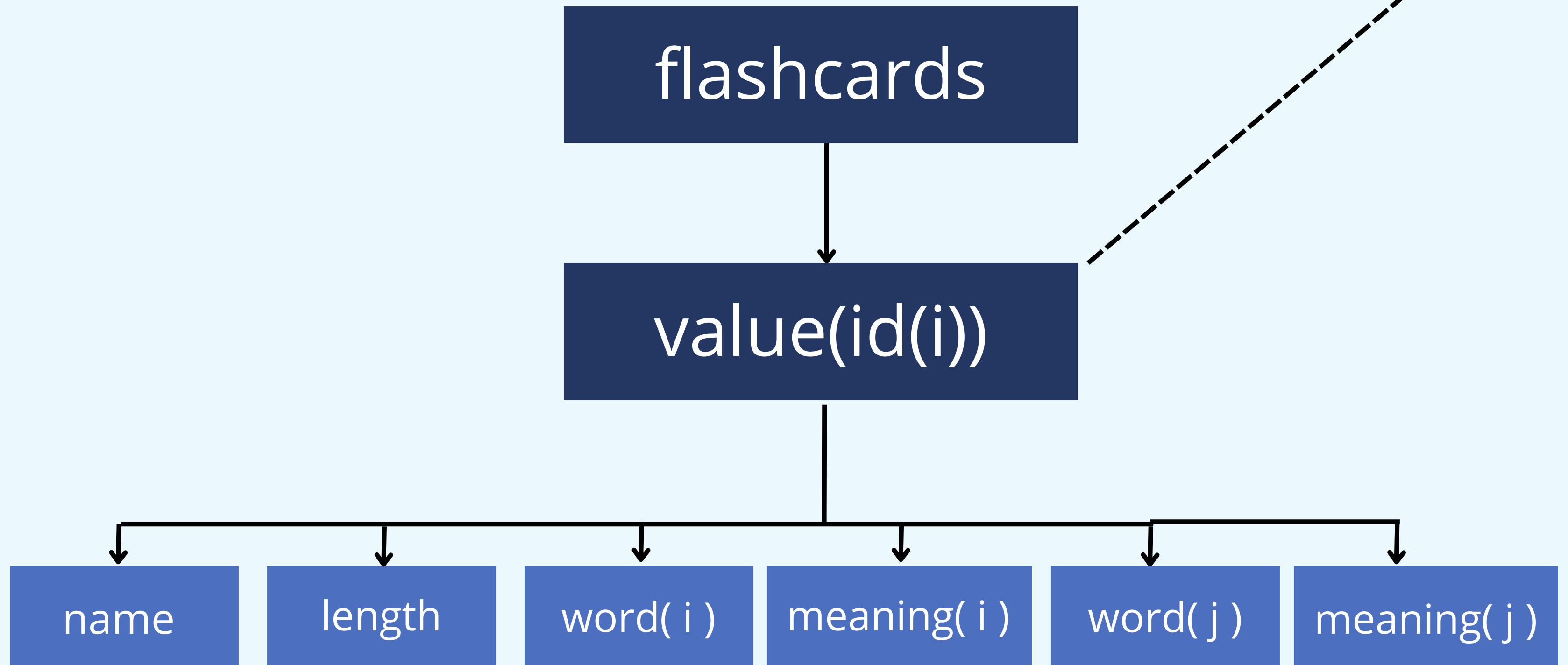
<https://github.com/Ailury/Flashcards>



# ★ FIRESTORE DATABASE



# ★ FIRESTORE DATABASE



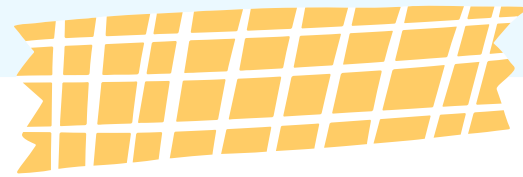
+ Start collection	+ Add document	+ Start collection	+ Start collection	+ Add document	+ Start collection
flashcards	D5fi9oUuP5eP6embzfey	+ Add field	flashcards	01gz7MHF1d31vR3exdvm	+ Add field
user >	DmAtDJaRDjswEaXUq0i0	user5: "test"	user >	D5fi9oUuP5eP6embzfey	<u>id1: "MitEjyhRQ0ZkJdmy62pX"</u>
	N5jUosKyW151VezgTQhH	user6: "Poon"		DmAtDJaRDjswEaXUq0i0	id10: "nRrEJNEQtLqFcwmKJFQr"
	ZX0VrcAtKutQ0bFqumnV	user7: "Singto"		N5jUosKyW151VezgTQhH	id11: "nRrEJNEQtLqFcwmKJFQr"
	alluser >	user8: "Poon "		ZX0VrcAtKutQ0bFqumnV	id2: "dTttSIF4vWmiPuZefwCv"
	bx8VpERB6ELDs9zS3KtN	user9: "Hahaha"		alluser	id3: "GrWuMB1d3w3LCleupVHn"
	e8B5YfC41RrnPrr7Vpfs	userid0: "epZfKTUzGTF0g8c4FPdy"		bx8VpERB6ELDs9zS3KtN	id4: "GrWuMB1d3w3LCleupVHn"
	epZfKTUzGTF0g8c4FPdy	<u>userid1: "ubL9nUMB7HC9lB9Xbgax"</u>		e8B5YfC41RrnPrr7Vpfs	id5: "vrqFRsQQ8Os6PXQ13G1J"
	ik50ws3UJud0oUog2b6Y	userid10: "wi0K9PXFIGEdQj9DsyH"		epZfKTUzGTF0g8c4FPdy	id6: "vrqFRsQQ8Os6PXQ13G1J"
	lk2wW5bPqTBMBR915eZ	userid11: "lk2wW5bPqTBMBR915eZ"		ik50ws3UJud0oUog2b6Y	id7: "h5DqiG4F60g6WWuZu1U3"
	rGkWQPj7khPxr20U8pvT	userid12: "zcGNojafqUWrYi51BzF9"		lk2wW5bPqTBMBR915eZ	id8: "nRrEJNEQtLqFcwmKJFQr"
	ubL9nUMB7HC9lB9Xbgax	userid13: "ik50ws3UJud0oUog2b6Y"		rGkWQPj7khPxr20U8pvT	id9: "nRrEJNEQtLqFcwmKJFQr"
	wi0K9PXFIGEdQj9DsyH	userid14: "EA3EFjMBIRqpQi3fXcsv"		<u>ubL9nUMB7HC9lB9Xbgax</u> >	name0: "IELTS"
	zcGNojafqUWrYi51BzF9	userid2: "e8B5YfC41RrnPrr7Vnfs"		wi0K9PXFIGEdQj9DsyH	<u>name1: "Super Easy"</u>

+ Start collection	+ Add document	+ Start collection
<u>flashcards</u> >	BfqGNk1EdnY5rkADfC7D	+ Add field
user	JZU8r0zs7fM2CjGd6Is8	<u>length: 2</u>
	JoI59ymsh5RJYa0o2C1Z	<u>meaning0: "แมว"</u>
	McF2m0ZwUWdzER17qNp7	meaning1: "สุนัข"
	<u>MitEjyhRQ0ZkJdmy62pX</u> >	<u>name: "Super Easy"</u>
	NrxJ5W1gHIgRZU3qcgwM	<u>word0: "Cat"</u>
	RB0Boei6gC5ea5K8WYrS	word1: "Dog"
	UN8fSRsXIVC2k4PldXYs	
	VgSGactb5CwYQsLY5TNU	
	bHxf1fSHs0Jw7e6Hjd4b	
	c1yraFKCEyh4sfb5vDG4	
	dTttSIF4vWmiPuZefwCv	
	dq3Ru2Gr9FC1Gzti9ZT0	
	g03Z0ZIKwv0cwS9GC7VD	

# Deployment







“

**Let's go through  
our website**

URL

<https://flashcards-22550.web.app/>



# Thank you

**Please feel free to ask.**

