

#### **Team Polyglots**

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# ABOUT LANGLEAP

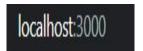


- FLASH CARD MAKER FOR LANGUAGE LEARNING
- A SIMPLE WEBSITE THAT DOES NOT HAVE SILLY/OVER THE TOP ACTIVITIES
- BEST USED AS A SUPPLEMENTARY TOOL WITH OTHER LANGUAGE LEARNING ACTIVITIES/TOOLS
- LETS YOU MAKE QUICK TRANSLATIONS BY COPY AND PASTING ANY PARAGRAPHS FOUND ONLINE
- ALLOWS YOU TO LEARN THE WORDS YOU WANT TO LEARN
- TARGETING PEOPLE WHO ALREADY HAVE BASIC KNOWLEDGE IN THE LANGUAGE

# TOOLS





























### PLANNING AND TRACKING





Google Sheets

- STARTED WITH JIRA
- DISLIKED THE CLUTTER
- Consolidated to a simpler Gantt Chart
- TRACKED PROGRESS
   THROUGH COLOR CHANGES
   AND COMMUNICATED
   WHAT AREAS NEEDED TO BE
   COMPLETED BEFORE
   MOVING FORWARD DUE TO
   DEPENDENCIES.

		Start Week		Feb 7, 2022									
			1	2	3	4	5	6	7 8	9	10		
			Feb	Feb	Feb	Feb	Mar	Mar	Mar	Mar	Apr	Арг	Notes
Task	Feature	Assignee	7	14	21	28	7	14	21	28	4	11	
Database & FE foundation	User Accounts	MR, JR											
Fully implement ^^	User Accounts	MR, JR											
User/Password Hashing	User Accounts	JR, BH											
Login Screen/and new user	User Accounts	BH, HM, AD											
Flashcard UX	Make/study Lists	AD, HM											
Create Lists	Make/study Lists	JR, BH											Most other tasks depend on this
Request and study lists	Make/study Lists	MP, MR											Most other tasks depend on this
Randomize Words	Make/study Lists	MP, HM											Dropped, Scope reduction
Apply spaced repetition	Make/study Lists	BH, JR											Dropped, Scope reduction
Pull up list & Quiz	Quiz												Most other quiz tasks depend on this
Correctness Calculation	Quiz	MP, MR											
Word Targeting	Quiz	BH, MR											Dropped, Scope reduction
	Quiz	MR, JR											
	Stats	JR, MP, AD											All stats activities depend on this
Stat Report UX	Stats	AD, HM											Not started
Stat Report Functionality	Stats												Not started
List sharing	Share	BH, AD, MR											Dropped, Scope reduction
	Make/study Lists	BH, JR											API call implemented, need db insert

### DATABASE LAYOUT





Google Sheets

User	SavedList	PublicList	WordAccuracy
UserID [INT IDENTITY]	UserID [INT IDENTITY]	ListID [INT IDENTITY]	UserID [INT IDENTITY]
Username [VARCHAR(45)]	List ID [INT IDENTITY]	SharedBy [INT IDENTITY]	Word [VARCHAR(45)]
Email [VARCHAR(255)]	ListData [JSON]	DateShared [DATE]	DateFirstAttempted [DATE]
Password [VARCHAR(255)]	TotalCards [INT]		TotalAttempts [INT]
RegistrationDate [DATE]	DateCreated [DATE]		TotalCorrect [INT]
TotalCards [INT]	IsPublic [BOOLEAN]		TotalMistakes [INT]
TotalAttempts [INT]	TimesStudied [INT]		WordAccuracy [NUMERIC(5, 2)]
TotalCorrect [INT]	ListMistakes [INT]		IsCommonlyMissed [BOOLEAN]
TotalMistakes [INT]	ListAccuracy [NUMERIC(5, 2)]		
UserAccuracy [NUMERIC(3, 2)]			
TotalWords [INT]			
AverageWordsPerDay [NUMERIC(5, 2)]			
HighestStreak [INT]			
HighestRelativeImprovement [NUMERIC(3, 2)]			

ListWordAccuracy	Session	ListImprovement	ListContents
UserID [INT IDENTITY]	UserID [INT IDENTITY]	UserID [INT IDENTITY]	ListID [INT IDENTITY]
ListID [INT IDENTITY]	SessionID [INT IDENTITY]	ListID [INT IDENTITY]	ListName [VCHAR]
Word [INT IDENTITY]	SessionDate [DATE]	SessionID [INT IDENTITY]	Word [VCHAR]
DateFirstAttempted [DATE]	ListsViewed [INT ARRAY]	AccuracyAdjustment [NUMERIC(5, 2)]	WordDefinition[TEXT]
TotalAttempts [INT]	TotalAttempts [INT]		TranslatedWord [VCHAR]
TotalCorrect [INT]	TotalCorrect [INT]		WordAccuracy [NUMERIC(5, 2)]
TotalMistakes [INT]	TotalMistakes [INT]		
WordAccuracy [NUMERIC(5, 2)]	SessionAccuracy [NUMERIC(5, 2)]		
IsCommonlyMissed [BOOLEAN]			

# MERRIAM WEBSTER ENGLISH-SPANISH API

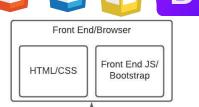
Merriam-Webster

- USERS CREATE A LIST OF WORDS TO LEARN
- WORDS ARE SENT TO THE API
- THE API WAS USED TO RETURN:
  - THE WORD AND IT'S TRANSLATION
  - A SENTENCE USING THE WORD IN ENGLISH AND SPANISH
- THIS WOULD BE USED TO GENERATE OUR WORD LISTS

# ARCHITECTURE DIAGRAM







Store and

query lists.

User stats.



Merriam-Webster API.

- Query Definitions of Words

- Word Accuracy Stats Table

- List Word Accuracy Stats Table - Session Stats Table - List Improvement Stats Table

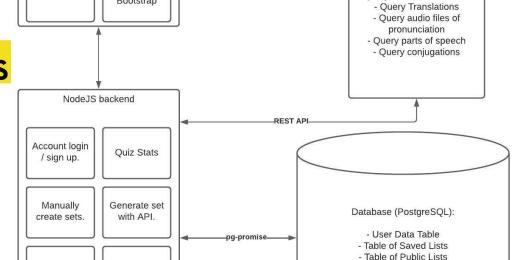


Express













### CHALLENGES



- LEARNING CURVES SPECIFICALLY WITH NODE/EJS
  - WORKED THROUGH BY HELPING EACH OTHER DEBUG ... AND A LOT OF GOOGLING
- REDUCING SCOPE OF PROJECT WAS HARD AT FIRST
  - DECIDING WHAT WAS WORTH IT AND WHAT WAS NOT
- DEALING WITH MERGE CONFLICTS
  - WORKED THROUGH THEM TOGETHER
- WORKING WITH API TOOK TIME BUT IT'S UP AN RUNNING!
- DATABASE BUGS

DEMO TIME!

