## CBL - "Memory", The Card Game - Backlog

## • Topic Choice 1: Github

Cooperation on the project will be done over Github. This means that we learned to effectively use the tools it offers such as pushing, pulling, merging and VS code support as well as effective communication using notes and comments.

## • Topic Choice 2: User Experience (UX) and Game Design

The comfert of the user and the playability of the game are improved aesthetically, such as with animation, sprite rendering, backgrounds and music, as well as functionally, such as exception handeling.

Backlog Items from highest to lower priority:

Name	Rende	red Table of Cards
	Description and Demo Method	
The user	interface itself must show a set	Demo: After the user starts the game, they
of cards	backside up which can be	will see a set of cards backside up that
flipped b	by the player to reveal its face.	can be flipped individually by clicking on
		them. If they are not pair, they will return
		to being unflipped.
Name		Card Pairing
Description and Demo Method		
Each ca	rd on the table must have a	Demo: Two cards which are
correspo	onding pair. The player must flip	corresponding pairs can be flipped after
2 cards	at a time and memorize where	the game is started through the title
potential pairs are. Each pair found adds		screen. When this is done, the players
a point for the player. Pairs that are		score must increase by one, and the pair
found will remain facing up. Cards		will remain flipped.
whose pair isn't found will stay face-		
side-down.		

Name	Sprite Ani	mation and Direction
Description and Demo Method		
The Que	en and King are animated, in the	Demo: Flip both King or Queen cards,
sense th	at they float up and down with	after which they will approach the player.
their sha	adows changing and always face	Note their animation and that they always
the playe	er	face the player.

Name	Combat Music
Description and Demo Method	

Music is another element of the User Demo: Flip two king or queen cards, after Experience. Combat music is played which the combat music starts. When when the player is fighting the enemies. slaying the enemy, the music will stop. Name Sound Effects Description and Demo Method Different sound effects are played for Demo: Flip any card, after which a flip sfx various events to enhance the UX. This should play. If two wrong cards are flipped includes flipping a card, unflipping a or the round is being started, the unflip card, the player being hurt, and the sound is heard. player swinging their sword. Swing the players sword to hear the swing sfx. If the queen or king are spawned by flipping their cards, and they attack the player, the players scream will be heard.

Name	Welcoming Guide	
Description and Demo Method		
brief intr	to guide users, a window with a oduction to the game is shown. include the controls of the game	Demo: A JFrame with text will appear when running the program.

Name Shuffle algorithm		
Description	Demo Method	
Cards are shuffled randomly each round	Start a few rounds, the card positions	
	change every time.	
Name Card	ds load correctly	
Description	Demo Method	
The game loads all the card images	Start the game and the cards appear with	
(front and back) into memory from the	images and no error messages in the	
res folder.	console.	
Name Ca	Cards are created	
Description	Demo Method	
The game makes 16 cards (8 of which	Start the game and see all 16 cards on the	
are matching pairs) and stores them.	screen (8 pairs in total).	
Name Card	s appear in a grid	
Description	Demo Method	
Cards are placed neatly in rows and	Start the game and cards are laid out	
columns on the board.	evenly with space between them, no	
	overlap.	
Name Cards pr	review (1,5 seconds)	
Description	Demo Method	
At the start all cards are shown face-up	Start the game, cards are face-up, wait	
for 1.5 seconds before flipping down.	1.5s and they flip back down.	

Name Pla	yer movement
Description	Demo Method
The Jester (player) can move using	Press WASD keys and Jester moves on the
WASD keys around the board.	screen.
Name	Flip one card
Description	Demo Method
When the Jester stands on a card and	Move Jester onto a card, press Space and
presses space the card flips face-up.	the card turns face-up.
Name Flip	two cards only
Description	Demo Method
The player can flip only two cards at	Flip two cards, try to flip a third; nothing
once.	happens until they're matched or flipped
No third card can flip until those two are	back.
checked.	
Name Matchin	g cards stay face-up
Description	Demo Method
If the two cards have the same pattern,	Flip a matching pair, both stay visible,
they stay face-up and increase the	points number goes up by one.
player's score.	
	rds flip down after 1 second
Description	Demo Method
If the two flipped cards don't match,	Flip two different cards, wait 1 second and
they stay visible for about 1 second,	they flip back down
then automatically flip back.	
Name Enemy sp	awns (King or Queen)
Description	Demo Method
Matching special cards (King or Queen)	Match two King cards and King appear.
spawns that enemy and starts battle	Match two Queen cards and the Queen
music.	appear.

Name	Sword attack	
Description		Demo Method
When the player presses the space bar,		Press space bar, Jester slashes and when
Jester slashes and damages enemies on		close to King or Queen, their HP bar
contact.		decreases.
Name	Enem	y contact damage
Descript	ion	Demo Method
If the King or Queen touch the Jester, he Let an enemy touch Jester, HP goes dow		Let an enemy touch Jester, HP goes down
loses 1 HP and plays a hurt sound		and hurt.wav plays.
Name	Enemy defeat	
Descript	ion	Demo Method
When an enemy's HP reaches zero, it		Attack the enemy, when its HP = 0 it
disappears and battle music stops		vanishes and the music stops.
Name	Timer countdown	
Description		Demo Method

The game timer starts at 60 seconds and	Start the game, watch timer, at 20s	
counts down every second.	remaining hear warning ticks.	
A warning tick sound starts playing at 20		
seconds remaining.		
Name Try Ag	ain button restart	
Description	Demo Method	
Clicking the "Try Again" button resets	Click button, round restarts with full HP,	
everything: timer, HP, cards, enemies,	new cards and reset timer.	
and score.		
Name Are	Arena background	
Description	Demo Method	
The background image is shown behind	Start game, arena image is visible behind	
all game elements.	cards, player, and enemies.	
Name Hea	alth and Points	
Description	Demo Method	
Shows the player's current HP and total	Play normally, HP decreases when hit,	
points at the top of the screen.	points increase when matching pairs.	