Capstone Project Phase 1:

Team: Marco Lauguico, Peter Tang, Kevin Do

Project Name: Smite Item Builder

Purpose: The game Smite has a lot of characters with different stats, and with that they are able to build 6 items. The game has hundreds of items to choose through, and this application will allow the user to test out different build combinations to best suit what they want. The app will have everything from god stats, item stats, item descriptions, lore and much more.

Audience: Users who play the game Smite whether it be new players or professionals

Non-Profit: May release it, need intent of teammates.

Database Listing:

Id	Name	Class	Туре	Art		se alth	Physical 1	Base Magical Protection	Base Mana	Base Attack Speed	Base HP5	Base MP5	Physical Protection Scaling	Magica Protect Scaling	ion Mo	rement I	Base Damge	Damage Scaling	Panthe
Integer Primary Key	TEXT	TEXT	TEXT	BLOS	3 IN	TEGER	INTEGER I	NTEGER	INTEGER	REAL	REAL	REAL	REAL	REAL	INT	EGER I	NTEGER	REAL	TEXT
			1-20		1000														+
tems																			
d	Item Name	Art	Cost	Туре	Health	Mana	Physical Protectio	Magical n Protection	Power	Attack Speed	Percent Penetration	Flat Penetration	Critical on Chance	Cooldown Reduction	Lifesteal	Passive	HP5	MP5	Crowd Contr Redu
nteger																			Ï
(ey	TEXT	BLOB	INTEGER	TEXT	INTEGER	INTEGE	R INTEGER	INTEGER	INTEGER	REAL	REAL	INTEGER	REAL	INTEGER	REAL	TEXT	REAL	REAL	INTEGE
NPC																			
							Dh		N/					Dama	age			Gold	le:
Id	N	PC Name	e Art		Healt	th	Physi		Magica Protect		Power	Ту	pe	vs Towe	ers	EXP	Rewar	rc Rew	
Integ																			
Prima Key		EXT	BLO	В	INTE	GER	INTE	GER	INTEGI	ER	INTEGER	TE	XT	INTE	GER	INTE	GER	INTE	GER
Build	5																		
Id	G	od	Item	1	Item2	2	Item:	3	Item4		Item5	Ite	m6	Relic	1	Reli	:2		
Intege Prima																			
Key	IN	NTEGER	INTE	GER	INTE	GER	INTE	GER	INTEG	ER	INTEGER	IN	TEGER	INTE	GER	INTE	GER		
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			11.															-	

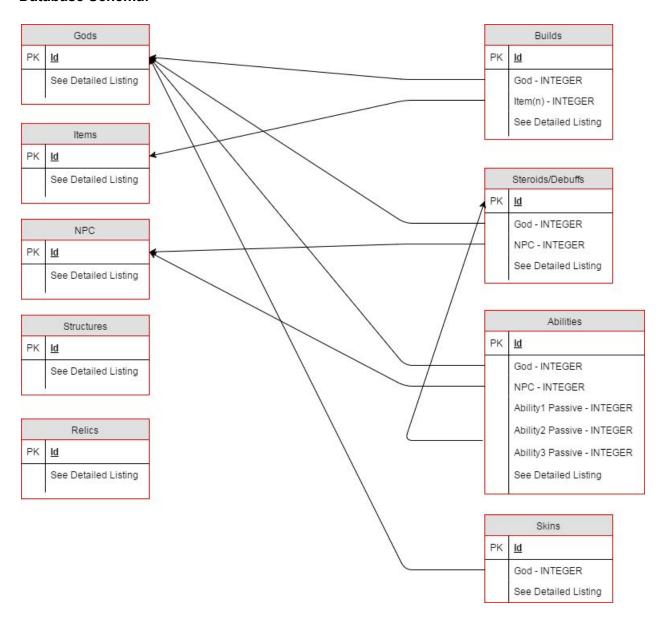
25										
Name	Art	Class	Health	Physical Protections	Magical Protections	Base Damage	Gold Worth	10		
TEXT	BLOB	TEXT	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER		
Debuffs (
					MovementS					
God	Art	NPC	Duration	Power	peed	Lifesteal	Protections	HP5	MP5	Penetration
INTEGER	BLOB	INTEGER	REAL	INTEGER	REAL	INTEGER	INTEGER	REAL	REAL	INTEGER
Relates to		Relates to NPC Table								
	Name TEXT (Debuffs God INTEGER	Name Art TEXT BLOB (Debuffs God Art INTEGER BLOB Relates to	Name Art Class TEXT BLOB TEXT (Debuffs God Art NPC INTEGER BLOB INTEGER Relates to NPC	Name Art Class Health TEXT BLOB TEXT INTEGER (Debuffs God Art NPC Duration INTEGER BLOB INTEGER REAL Relates to NPC	Name Art Class Health Protections TEXT BLOB TEXT INTEGER INTEGER (Debuffs God Art NPC Duration Power INTEGER BLOB INTEGER REAL INTEGER Relates to NPC	Name Art Class Health Physical Protections TEXT BLOB TEXT INTEGER INTEGER INTEGER (Debuffs God Art NPC Duration Power peed INTEGER BLOB INTEGER REAL INTEGER REAL Relates to NPC	Name Art Class Health Physical Protections Damage TEXT BLOB TEXT INTEGER INTEGER INTEGER INTEGER God Art NPC Duration Power Peed Lifesteal INTEGER BLOB INTEGER REAL INTEGER REAL INTEGER Relates to NPC	Name Art Class Health Physical Protections Damage Gold Worth TEXT BLOB TEXT INTEGER INTEGER INTEGER INTEGER INTEGER God Art NPC Duration Power Peed Lifesteal Protections INTEGER BLOB INTEGER REAL INTEGER REAL INTEGER INTEGER Relates to NPC	Name Art Class Health Physical Protections Protections Damage Gold Worth ble TEXT BLOB TEXT INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER God Art NPC Duration Power peed Lifesteal Protections HP5 INTEGER BLOB INTEGER REAL INTEGER REAL INTEGER INTEGER REAL Relates to NPC	Name Art Class Health Protections Protections Damage Gold Worth ble TEXT BLOB TEXT INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER God Art NPC Duration Power Peed Lifesteal Protections HP5 MP5 INTEGER BLOB INTEGER REAL INTEGER REAL INTEGER INTEGER INTEGER REAL REAL REAL REAL REAL REAL REAL RE

Abilities																			
Id	God	Ability1 Name	Ability1 Damage	Ability1 Scaling	Ability1 Overtime	Ability1 Passive	Ability2 Name	Ability2 Damage	Ability2 Scaling	Ability2 Overtime	Ability2 Passive	Ability3 Name	Ability3 Damage	Ability3 Scaling	Ability3 Overtime	Ability3 Passive	Ultimate Name	Ultimate Damage	
Integer Primary Key I	INTEGER	TEXT	INTEGER	REAL	INTEGER	INTEGER	TEXT	INTEGER	REAL	INTEGER	INTEGER	TEXT	INTEGER	REAL	INTEGER	INTEGER	TEXT	INTEGER	REAL
	Relates to					Relates to Steroids/ Debuffs table					Relates to Steroids/ Debuffs table					Relates to Steroids/ Debuffs table			

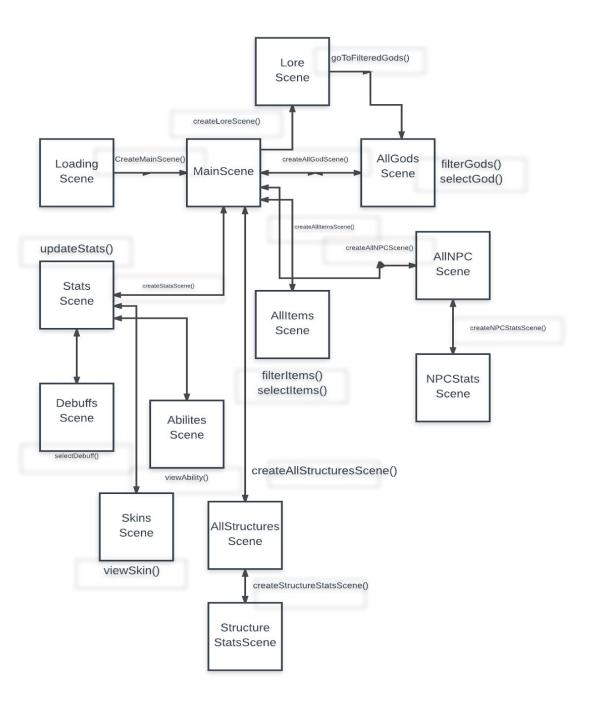
Skins					
Id	God	Tier	GemCost	CardArt	
Integer Primary Key	INTEGER	INTEGER	INTEGER	BLOB	
	Relates to Gods table				

Relics				
ld	Relic Name	Art	Ability	Upgraded
Integer Primary Key	TEXT	BLOB	TEXT	INTEGER

Database Schema:

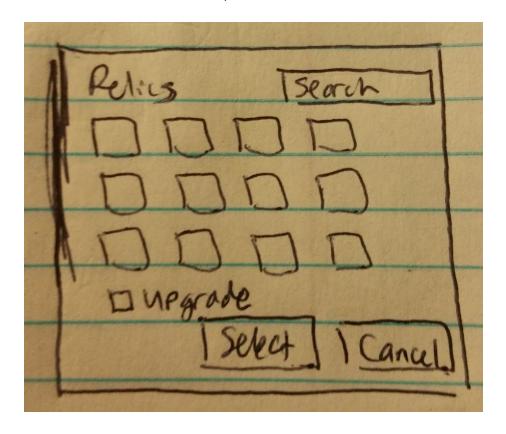


Scene Flow

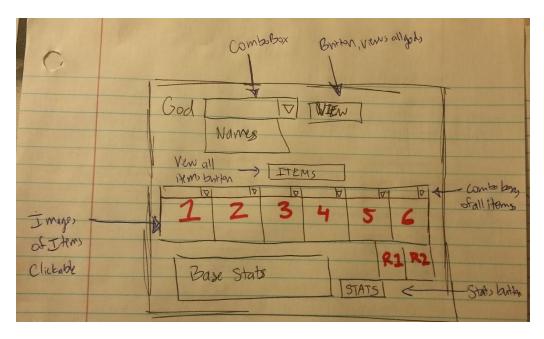


Examples of Scenes:

Relics Scene ->shows all relics, can choose to add to build



Main Screen -> View all gods, view god stats, view all items, view lore



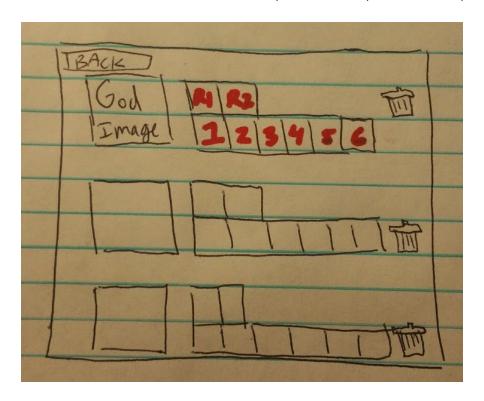
All Items Page -> Filter items, Checkboxes for different types of items, Back to main screen



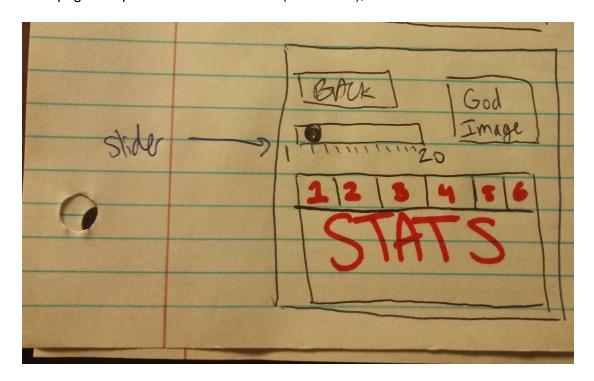
Essentially a close adaptation of -->



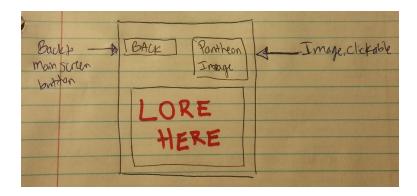
View Saved Builds -> load saved builds, delete builds, search builds, Back to main screen



Stats page -> Update stats based on Lv (from slider), Back to main screen



Lore page -> clickable pantheon logo shows all gods of that Pantheon, Back to main screen



Activities

- viewAllGods() this is an activity that will bring the user to a list of all god icons on which
 they can press the god's icon and once they did, it'll bring them to a scene where the
 God's attributes are displayed. This list comes from the model (database), creates
 tables from database if not already done so
- viewAllItems() this is an activity that will prompt the user to a list of all item icons on which they can press and once they did, it'll prompt them to a scene where the item's description and item effects are displayed. This list comes from the model (database), creates tables from database if not already done so
- viewGod() this is a scene where it displays a God's attributes. *Name,
 Description(lore), Stats, and Abilities. Pulls the info from the model (database), creates tables from database if not already done so
- viewItem() this is a scene where it displays an item's description and effects. Pulls data from the model (database), creates tables form database if not already done so
- filterItems() filters out list of all items per checkbox parameters
- searchItem() searches subsequence in item name with all filters applied
- viewAllBuilds() this is an activity inside the viewGod() scene where if is active will bring
 the user to the scene where all the list of all possible builds for that certain God is
 displayed.
- addBuildScene() this is an activity where if a user activate it will bring the user to a scene where they can name the build and etc and add it on the build database.
- addBuild() this is an activity that creates a new record of a build for a God in the build database.

- deleteBuild() this is an activity that removes a God build record from the build database.
- selectItem() this selects the items, takes the user to the main screen, adds it to the build and updates all stats accordingly
- selectGod() this selects the god, takes the user to the main screen and updates all stats
- selectRelic() this selects the relic, takes the user to the main screen, and adds it to the build
- editBuild() this is an activity that will prompt the user to the addBuildScene() and will
 load the previous values for the build and the user can edit them and updates it on the
 build database.
- viewBuildScene() this is an activity where if activated will bring the user to a scene where the stats and the item build of a God are shown and a slider from (1-25) that will show the stats on a certain level.
- sliderStatHandler() this activity is connected to the viewBuildScene() where there is a slider from 1-25 and will update the displayed stats from a certain God according to the level.

Model	Controller	View
All Database tables above • All entity class member variables mirror its corresponding database attributes	 Singleton Pattern So far planning to go with one controller Examples of methods within the controller to process and return result to the View 	 JavaFX application Scenes listed by scene name
Gods.java		Splash/Title/Loading Scene
 mName mClass mType mArt mStats mBuilds (An 	viewAllGods()viewGod()searchGod()filterGods()	AllGodsScene • View with all gods selection
arraylist/dynamic array of build class)	 viewAllItems() filterItems() viewItem() searchItem() selectItem() 	AllItemsScene • View with icons of all items

- mCost
- mType
- mStats

Relics.java

- mld
- mName
- mArt
- mAbility
- mlsUpgraded

Structures.java

- mld
- mName
- mArt
- mClass
- mHealth
- mPhysicalProt
- mMagicalProt
- mBaseDamage
- mGoldWorth
- mlsRespawnable

Npc.java

- mld
- mName
- mArt
- mStats
- mExp Gain
- mGold Gain

SteroidsDebuffs.java

- mld
- mGod
- mArt
- mNPC
- mDuration
- mPower
- mMoveSpeed
- mLifesteal
- mProtection
- mHP5
- mMP5
- mPenetration

Builds.java

- Id
- God
- inventory

Abilities.java

See above DB description

- viewBuild()
- sliderStatHandler()
- searchBuild()
- viewAllRelics()
- selectRelic()
- filterRelics()
- upgradeRelic()
- addBuild()
- editBuild()
- deleteBuild()
- viewLore()
- Remaining scenes follow a template to view all items of the game's attribute with the ability to filter through the list and show the filtered results

StatsScene

View of God's stats

RelicsScene

View with all relics

SavedBuildsScene

View with editable build

LoreScene

View with God's lore

AllNPCScene
NPCStatsScene
DebuffScene
AbiltitiesScene
AllStructuresScene
StructureStatsScene
SkinsScene
etc.