

## WHAT IS CRACKEN

CRACKEM IS AN AR FIRE CRACKER SIMULATOR WHICH IS EXTREMELY FUN TO USE, IT HAVE ALMOST ALL THE FIRE CRACKERS YOU CAN IMAGINE. ITS SAFE AND CRAZY. WE'LL HAVE A WHOLE ARSENAL FULL OF FIRECRACKERS RANGING FROM CLASSIC DIWALI FIRE CRACKERS TO, WORLD ENDING NUCLEAR BOMBS. PLAYER CAN CLEAR LEVELS OR EARN COINS TO UNLOCK FIRE CRACKERS.

### PLANED MECHONICS

#### **SCREENS:**

SPLASH, LODAING, MENU, SETTINGS, GAME MODE SELECT, AR MODE, LEVEL SELECT, LEVEL SCREEN, GAME OVER/WIN

#### MECHANICS:

- AR INTIGRATION
- JSON LEVEL DATA AND CREDENTIALS
- OPTIMISED SFX AND OBJECT POOLING
- HIGH QUALITY PARTIAL SYSTEM MANAGER FROM OPENGAMEART.COM
- CHALLENGES SYSTEM
- IN GAME CURRENCY

## WHY IN THE WORLD?

SO WHY IN THE WORLD WE NEED AN AR FIRE CRACKER SIMULATOR???
A SIMPLE ANSWER TO THAT QUESTION IS, FIRE WORK ARE DANGEROUS
AND CAUSE AIR POLLUTION SO YOU KNOW "ENVIRONMENT", THATS WHY
BRO, ON TOP OF THAT IT WONT BE LIKE 500 AIR QUALITY INDEX AFTER
DIWALI IN INDIA IF THIS APP TAKES OVER LOL.

ALSO THAT MY FRIENDS SADDAM SAID ITS A DOPE IDEA SO IT SHOULD BE : ).

PS: I HAD THIS IDEA IN MIND FOR QUIET SOME TIME I WAS JUST TOO LAZY OR BUYS TO MAKE IT

# PROGRESS

### UNREAL ENGINE

UNREAL ENGINE IS A HIGH-END GAME DEVELOPMENT ENGINE, EFFICIENT IN CREATING VISUALLY AND MATHEMATICALLY REALISTIC VIDEO GAMES. IT IS MOST COMMONLY USED BY AAA GAME DEVELOPMENT STUDIOS AND CONSOLE DEVELOPERS, WITH A NICHE AMOUNT OF INDIE DEVELOPERS ALSO UTILIZING IT. THE LIGHTING, SOUND, AND 3D CAPABILITIES OF UNREAL ENGINE ARE UNMATCHED BY ANY OTHER GAME DEVELOPMENT ENGINE. THE COST FOR SUCH POWER IS PAID IN BUILD SIZE, HIGH PROCESSING DEMANDS ON THE CPU AND GPU, AND THE OVERALL SIZE OF UNREAL ENGINE.

### OTHER SOFTWARE

BLENDER: TO MAKE 3D MODELS WHICH I WAS NOT ABLE TO FIND ONLINE

SUBSTANCE PAINTER: TEXTURING AND RENDERING.

ADOBE PHOTO SHOP: USED TO EDIT TEXTURES AND BASIC RASTER ART (AINT NOTHING ADOBE'S LIKE MONOPALY AND THERE RIDICUSLY PRICED SOFTWARE)

ADOBE ILLISTRATOR: USED TO CREATE VECTOR ART FOR MENU BUTTOSN AND WHATEVER

AUDACITY: SFX AND AUDIO EDITING

### REFERENCES

#### MODELS

#### SFX

OPENGAMEART.ORG
GOOGLEFONTS.COM
MAXIMO.COM
UNITYASSETSTORE.COM
GAMEDEVMARKET.NET
ARTSTATION.COM

SMALL CRACKER MEDIUM CRACKER BIG CRACKER CLUSTER BOMB BIG BOMB SMALL BOMB MEDIUM BOMB BIG BOMB ROCKET ICBM TACTICAL NUKE FOAB TREE AND SCENR

WALK\_SFX
BGM
SFX FOR ALL EXPLOSIVES
MENU\_BGM
NUKE\_SFX
CLICK\_SFX
MISSILE TRAIL SFX
A LOT MORE

#### ANIMATIONS

THERE IS NO NEED FOR ANIMATIONS IN THE GAME AS ITS JUST LIKE A SPAWNING SIMULATOR WHICH HAVE STATIC MODELS WITH PARTICAL EFFECTS EXPECT A FEW EXCEPTIONS.

#### PARTICLE SUSTEM

HAVE DONE INTEGRATING A 50% PARTICLE SYSTEM FOR CRACKERS, REST WILL BE ADDED SHORTLY

#### LIGHTING

MOST OF THE MATERIALS ARE EMISSIVE WHICH ARE NOT AFFECTED BY LIGHTING, ONE DIRECTIONAL LIGHT AND AND SOME LIGHT EFFECTS ON CRACKER EXPLOSION



HAVE USED BLUE PRINTS FOR MOVEMENT, RECASTING, EXPLOSIVES, GAME MANAGER AND FORM INVENTROY

### ENVIORMENT INTERACTION

DISTRACTABLE VILLAGE WITH HIT POINTS FOR EACH HOUSE

ACTIVITY	MAY	JUNE	JULY	AUGUST	TOTAL
CONCEPT AND DESIGN	X	X			2 MONTHS
PREPARATION WORK		×			1 MONTH
AUDIO ASSET SEARCH	X	X			2 MONTHS
AUDIO ASSET CLEANUP			X		1 MONTH
IMAGE ASSET SEARCH	X	X			2 MONTHS
IMAGE ASSET CLEANUP			X		1 MONTH
3D ASSET SEARCH	X	X			2 MONTHS
3D ASSET CLEANUP			X		1 MONTH
DEVELOPING IN UE			X	X	2 MONTHS
TESTING				X	1 MONTH
PACKAGING/SAVING				X	
TOTAL	4 MONTHS	4 MONTHS	4 MONTHS	3 MONTHS	_

#### FUTURE ENHANCEMENTS

SELF MADE ASSETS: WILL MAKE ALL DOWNLOAD ASSETS TO SELF MADE ASSETS BECAUSE "PEOPLE WHO ARE VERY SERIOUS ABOUT THERE GAME DEV MAKES THERE OWN ASSETS" -ALAN KAY

MORE CRACKERS: HAVE TO ADD MORE CRACKERS TO THE GAME BEFORE I CNA RELEASE IT TO APP AND PLAY STORE

OPTIMIZATION FOR MOBILE DEVICES: WEAK AHH MOBILE DEVICES : ( HAVE TO MAKE EVERYTHING LOW POLY...

SOME SORT OF AR MODE: HAVE TO FOLLOW INITIAL PLAN FOR THE GAME.

HAVE TO STOP BEING LAZY: PERSONAL GOAL.

#### CONCLUSION

PROJECT SETUP: JUST MADE A NEW PROJECT AND STARTED YEETING ASSETS.

MODELING: MADE CRACKERS MODELS ( UNOPTIMIZED AND HIGHPOLY )

PARTICLE SYUSTEM: INCLUDED EVERY CRACKER AND WEPON OF MASS DISTRUCTION.

ENVIOUMENR INTERACTION: GIVING HP TO BUILDINGS AND ADDED EDESTROYING

EFFECTS

EFFECTS: ADDING SOUND EFFECTS AND VISUAL EFFECTS.

TESTING: METHORDS TO MAKE GAME MORE OPTIMIZED

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FOR BEARING WITH PPT FOR SECOND TIME IN YOUR LIFETINE