

James DeGruttola  
**UI/UX Portfolio**



1. HERO INFORMATION
2. DAILY QUEST + CACHE

**RUINS** OF  
**GLITTERDEEP**

3. VISUAL DEVELOPMENT

**MANA**  **GRIND**

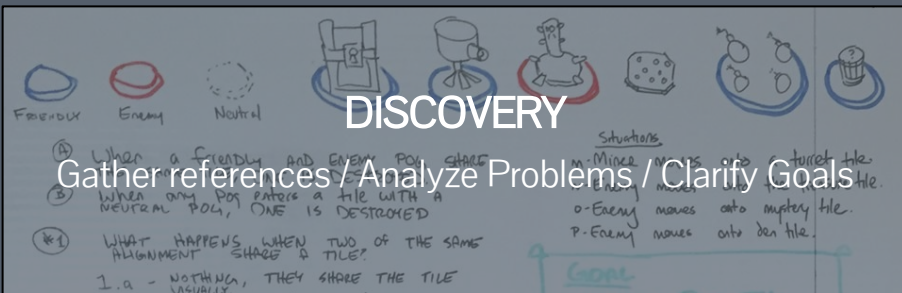
4. OTHER FUN STUFF

[RESUME](#)

[DEV BLOG](#)

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# My Design Process OVERVIEW



**DISCOVERY**

Gather references / Analyze Problems / Clarify Goals

The diagram shows three categories: Friendly (blue circle), Enemy (red circle), and Neutral (dashed circle). It includes a list of situations and a flowchart for a tile-sharing mechanic.

**Situations**

- M-Mine moves onto turret tile.
- E-Enemy moves onto turret tile.
- D-Enemy moves onto mystery tile.
- P-Enemy moves onto den tile.

**Flowchart:**

- When a Friendly AND ENEMY POI share a tile, one is destroyed.
- When any POI enters a tile with a NEUTRAL POI, one is destroyed.
- WHAT HAPPENS WHEN TWO OF THE SAME ALIGNMENT SHARE A TILE?
  - 1.a - NOTHING, THEY SHARE THE TILE



**CONCEPTING**

Explore Solutions / Low-Fi Mockups / Storyboards

The image shows three 3D models of game assets: a turret, a mine, and a den.



**REFINING**

Synthesize Concepts / Feasibility Checks

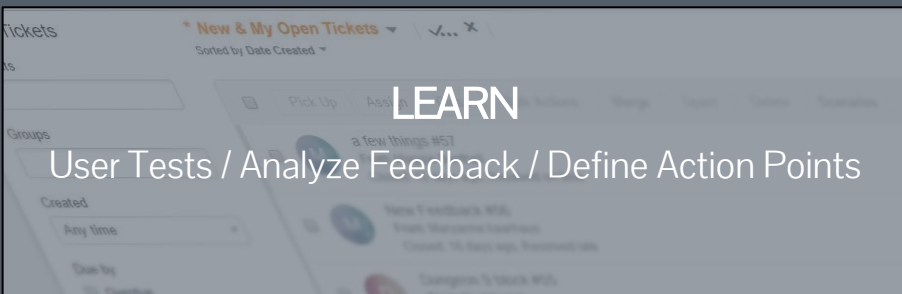
The image shows a 3D model of a game tile with a turret and a mine.



**INTEGRATION**

Dev Side-by-Side / Asset Generation

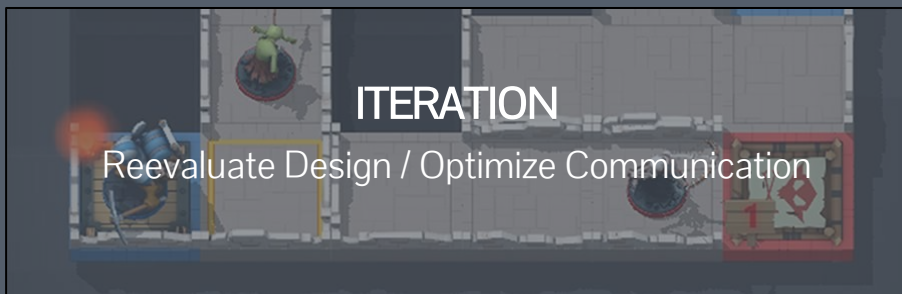
The image shows a screenshot of a game level with a turret and a mine.



**LEARN**

User Tests / Analyze Feedback / Define Action Points

The image shows a screenshot of a ticketing system with a list of tickets and a sidebar with filters.



**ITERATION**

Reevaluate Design / Optimize Communication

The image shows a screenshot of a game level with a turret and a mine, with a red box highlighting a specific area.

## Fieldrunners Attack! HERO INFORMATION

**DIABOLICA**  
Wheelies from Hell

109

Level 35



**FURIOUS GEORGE**  
Missing a Banana

109

Level 26



**JAX**  
Metal Shredder

96



**CLUCK NORRIS**  
Akimbo Chicken

95



**HELLS BELLS**  
Metal Shredder

74

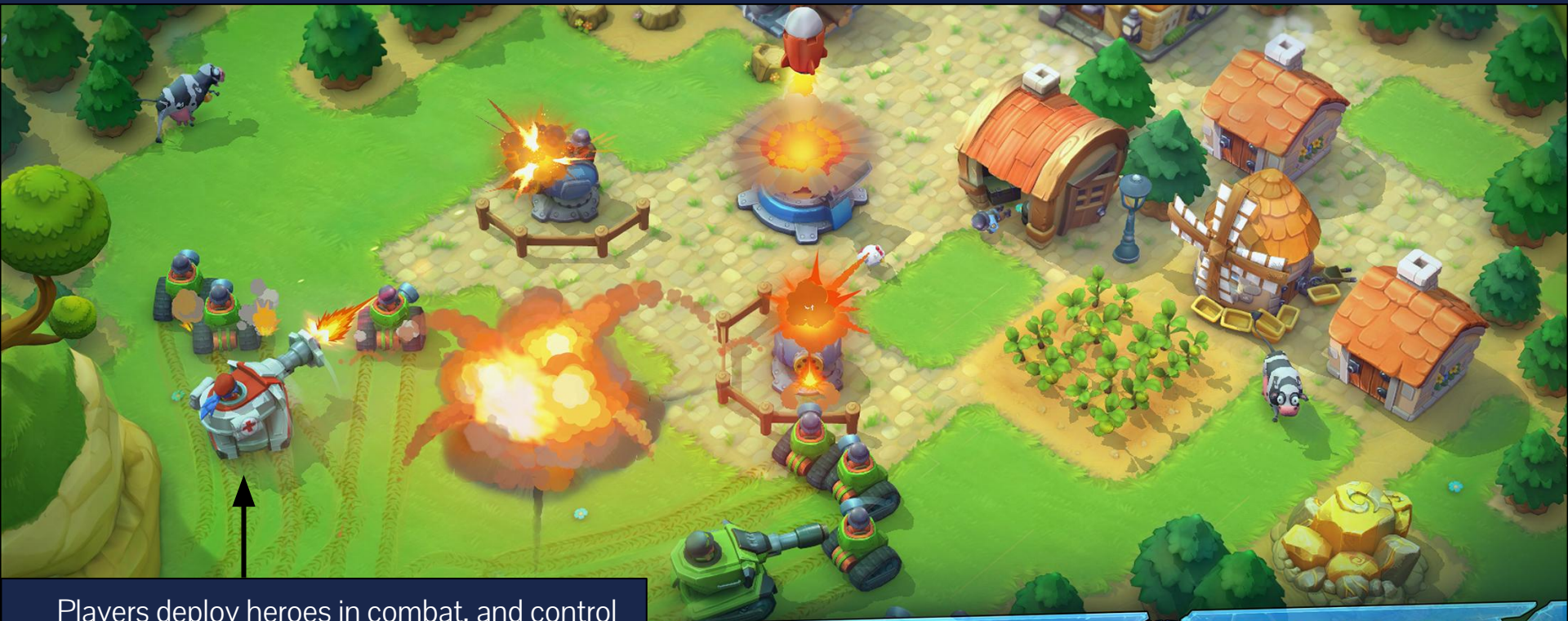


**ARACHNAT**  
Flight Sim



In Fieldrunners Attack! Players collect and battle with over 30 unique heroes. Heroes are the **core component** of the game, and getting players to **want** to view and interact with their collection is my goal.

## Fieldrunners Attack! HERO INFORMATION



Players deploy heroes in combat, and control them individually. With 30+ options to choose from, it's important players know each hero's strengths and weaknesses.

**CONTROL MANY HEROES**  
**DESTROY YOUR ENEMIES**

## Fieldrunners Attack! HERO INFORMATION

The goal of the hero information screen is to provide all the information that would allow players to know which tool is right for the job of defeating their enemies. There is a lot of information to display, and coming up with a pleasing and intuitive design was essential.

Hero Stars - The number of stars a hero has earned determines the **maximum level** a hero can achieve.

Hero Level - A hero's level determines the **damage** and **health** stats for the hero, as well as the number of times a **hero power** can be upgraded.

Hero Powers - The components that establish the difference between **heroes** and **regular troops**. Some powers are passive bonuses, others are active abilities the player activates in combat.

Additional - Hero Damage and Health, Name, Role, Description, Environment Type, Strength Value



# Fieldrunners Attack! HERO INFORMATION

Early wireframing and ideation. Exploring information hierarchy and organization.

Hero Name

HERO PORTRAIT

Lvl 28  
Rank

Stats

Health: 1000  
Damage: 2000  
Targets: Air and Ground  
Speed: Fast

Next Level  
+ 100  
+ 200

Hero Power

Airstrike:  
Calls down a massive Airstrike causing 100 damage per second for 10 seconds in a large area.

Leader Skills

Soul Steal:  
Hero has a 55% chance to steal health from an enemy.  
Next Rank +5%

Resolve:  
Hero has a 15% chance to block all damage.  
Next Rank +5%

Next Star: 21/30

1000/20000

5/5

Frost Walk (unlocks at rank 6)

HERO NAME

INTEL

POWERS

UPGRADE

Health: 1000  
Damage: 2000  
Targets: Air and Ground  
Speed: Fast

Next Level  
+ 100  
+ 200

This hero spent decades in super max prison, training their CQC abilities against the meanest of criminals.

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5/5

1000/20000

## Fieldrunners Attack! HERO INFORMATION

First integration. System and idea validation.



In the hero system's early development, players invested cola drinks to increase a hero's stats and strength of special powers.

The large, striking hero portraits created a **sense of place** for players in a game filled with stats and menus.

## Fieldrunners Attack! HERO INFORMATION

Learn from feedback and observation. Hero Powers are awesome, let's interact with them more!

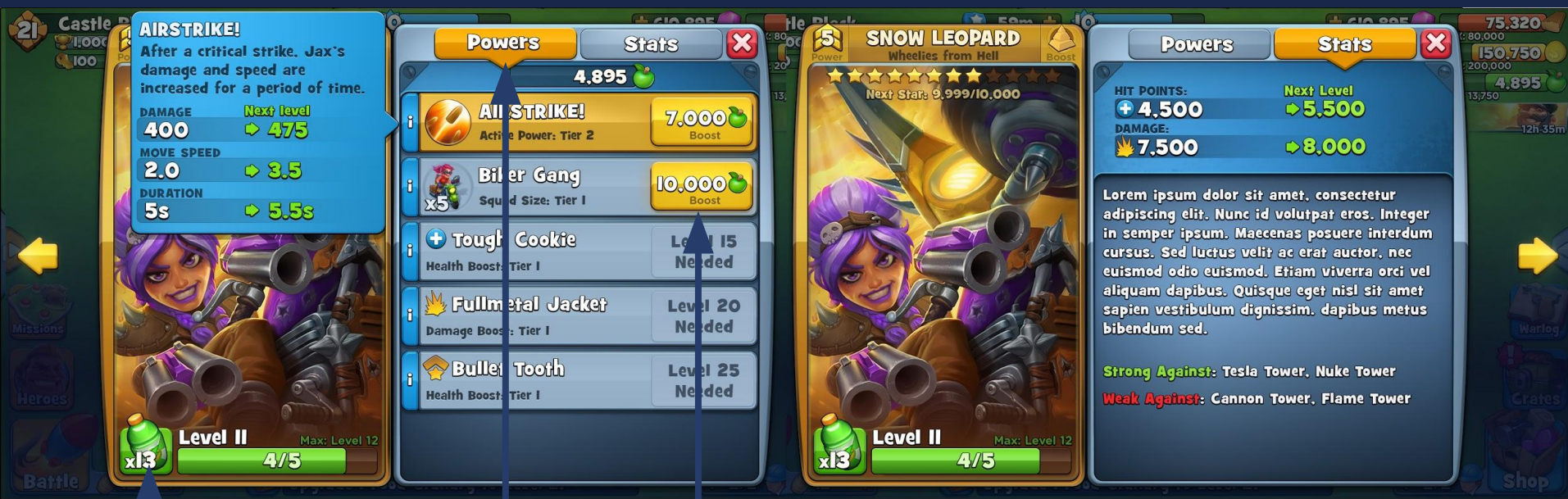


I wanted Heroes to **feel more powerful** than troops, and I saw an opportunity to achieve this and also increase **player engagement** by making hero powers individually upgradeable.

Allowing players to choose which hero powers they could upgrade increased the feeling of **ownership** and perceived value of each hero and their powers.

## Fieldrunners Attack! HERO INFORMATION

Iteration and Refinement. Upgrading heroes is great but the process is not fun.



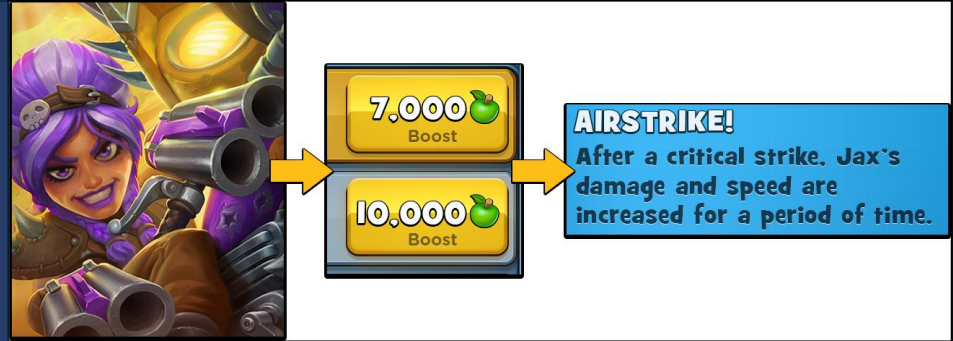
Once the hero powers became a **point of interaction** for players, they had to be moved **above-the-fold**. The number of colas was reduced from 4 to 1. The currencies required to upgrade powers reduced from 6 to 1.

The basic stats and hero description, while important are **not viewed and engaged** with as often as the Cola and Power upgrade buttons, the stats tab is no longer the **default tab** when the interface is opened.

## Fieldrunners Attack! HERO INFORMATION

Reflect and analyze successes and failures.

Defining the importance of each bit of data -  
Understanding how **we want** the player to use the interface and how **they do use** the interface allows me to understand what's important and what can be put aside.



Consistent branding **prevents** an interface filled with different bits of data from **feeling overwhelming**.



Utilizing the **minimal space** on mobile devices starts with understanding what the **player needs**.



When systems feel **complicated** to players, they need to be re-examined. They are **not achieving their goals**.



# Fieldrunners Attack! HERO INFORMATION



**5** **DIABOLICA** 

Power **Wheelies from Hell** Boost

★★★★★★★★★★★★★★★★★★★★  
Next Star: 9,999/10,000



 **x13** **Level II** Max: Level 12

**4/5**

**Powers** **Stats** 

**4,895** 

 <b>AIRSTRIKE!</b> Active Power: Tier 2	<b>7,000</b>  Boost
 <b>Biker Gang</b> Squad Size: Tier I	<b>10,000</b>  Boost
 <b>Tough Cookie</b> Health Boost: Tier I	<b>Level 15</b> Needed
 <b>Fullmetal Jacket</b> Damage Boost: Tier I	<b>Level 20</b> Needed
 <b>Bullet Tooth</b> Health Boost: Tier I	<b>Level 25</b> Needed

**ARACHNATRON**  
Flight Simulator



unlock 4/5

## Fieldrunners Attack! DAILY QUEST + CACHE

Daily retention is a metric for a free-to-play mobile game that helps evaluate its performance. It measures the proportion of users that continue playing a game after Day 1.

Day 1: 40%

Day 7: 20%

Day 30: 5%



Day 1: 80%

Day 7: 40%

Day 30: 15%

Getting players to **try** your game is the first battle. Getting them to **return** is the next great challenge. I needed a feature that would have players battling in Fieldrunners **every day**.

*Daily retention values are an estimate and do not reflect real Fieldrunners Attack! data.*

## Fieldrunners Attack! DAILY QUEST + CACHE

Rapid Ideation. I needed a solution that was low risk, low cost, and could be done quickly.

Castle Black 59m + 10 + 610.895 75. MAX: 80,000 150. MAX: 200,000 4. MAX: 17,750

### ACHIEVEMENTS

Guide Town Combat Heroes

	<b>Complete 5 Campaign Missions</b>	Progress: Complete	✓
	<b>Collect 100,000 Gold</b>	Progress: 90,000/100,000	→
	<b>Upgrade 4 Lumbermills to level 5</b>	Progress: 3/5	→
	<b>Upgrade 3 Gatling Towers to level 6</b>	Progress: 1/3	→

Rewards: 100,000 100,000

Rewards: 100,000 100,000

Rewards: 100,000 100,000

Rewards: 100,000 100,000

I determined that we could reuse the core components of our achievement system to create a cycling daily quest system, saving production time and making something the players can understand due to familiarity.

Quest Image



Quest Objective

**Collect 100,000 Gold**

Quest Progress

Progress: 90,000/100,000

Quest Rewards

Rewards: 100,000 100,000

# Fieldrunners Attack! DAILY QUEST + CACHE

Rapid Ideation. How does the player access the daily quest and cache?

## Option A



Daily quests/rewards are added to the existing Achievements screen via tab. Guide remains the default tab. 'Guide' quests populate the bar on the HUD.

## Option B



Quest bar is removed from HUD. Two buttons added below league icon. 'Task board' and 'Achievements'.

Achievements UI operates as it currently does.



Task Board will start with one tab, Daily. It will be modular and be able to grow to include longer quests that will help long-term retention.

## Option C



Quest bar and Achievements button remain in tact. Task board button added below league.

Achievements UI operates as it currently does.



Task Board will start with one tab, Daily. It will be modular and be able to grow to include longer quests that will help long-term retention.

## Option D



Quest bar and Achievements button remain in tact. Task board button added below league.

Daily quests tab is added to the achievements UI. Tapping the Achievement button opens to achievement tab.



Tapping the Daily button below the league icon opens the achievements UI, but to the daily tab.

## Option E



Once the player understands and is familiar with how to interact with the game, begin showing daily quests, as they are more important to act upon NOW than high-level achievements.

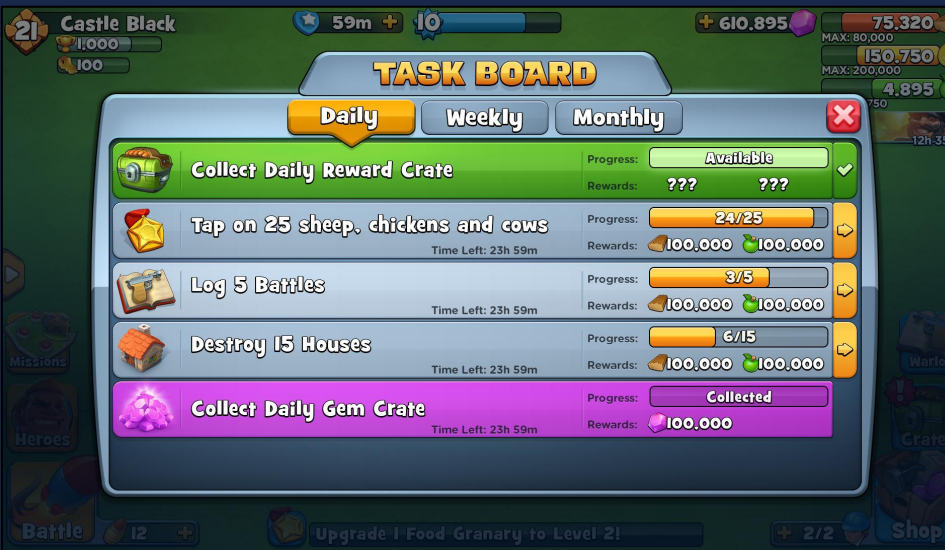


I mocked up possibilities for how to **access** the daily quests and how are the daily quests **integrated** with the achievements system.

Option C was chosen for its balanced development time, accessibility and player excitement.

## Fieldrunners Attack! DAILY QUEST + CACHE

First Integration. Idea validation and user testing.

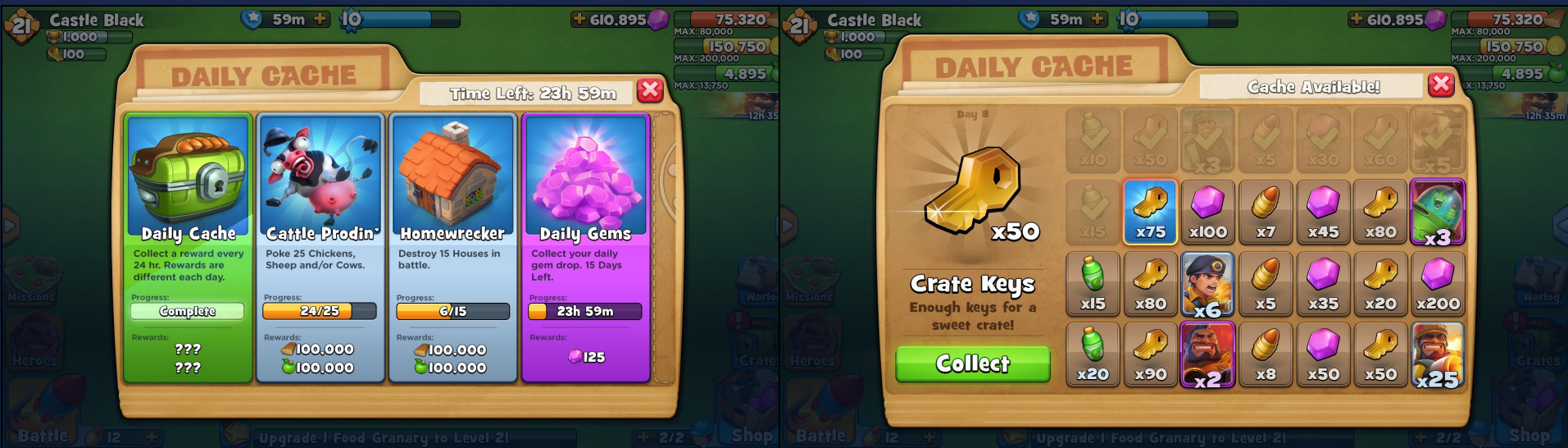


In roughly two days the Daily Quest system was crudely working in Fieldrunners Attack! The system was a visual clone of the Achievements interface with the addition of the Daily Cache, Daily Gems, and 24 hour timers.

Initial play-testers responded positively towards being rewarded for accomplishing small feats each day.

# Fieldrunners Attack! DAILY QUEST + CACHE

## Visual refinement



By skinning the prototype, the old system feels fresh and unique. The Daily Quests need to be visually distinct from the Achievements to excite players to return each day.

# Fieldrunners Attack! DAILY QUEST + CACHE

Visual refinement



2 Castle Black  
150

23h 59m

10

+ 610.895

75.320

MAX: 80,000

150.750

MAX: 200,000

4.895

MAX: 13,750

12h 35m



Closed, Work to do.



Open, Rewards to claim!

Players access the Daily Quest interface using the Daily Ops button at the top-left of the HUD, normally where a player's eye begins reading the screen.

# Ruins of Glitterdeep VISUAL DEVELOPMENT



Ruins of Glitterdeep is a puzzle + RPG where players need their wits about them to navigate dangerous dungeons and reclaim the lost relics of an ancient dwarven city, Glitterdeep.

Overview. My experiences working on side-projects.



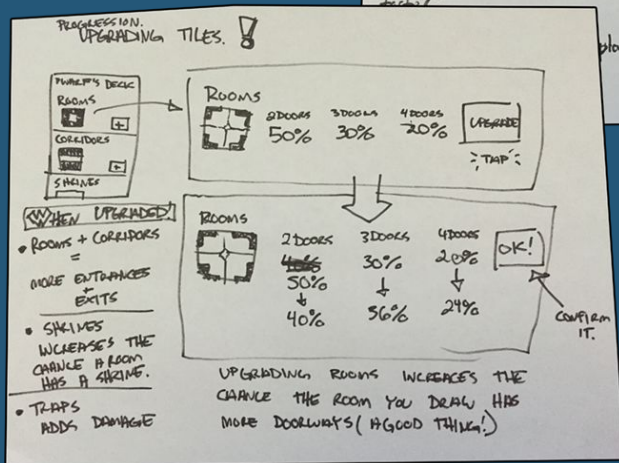
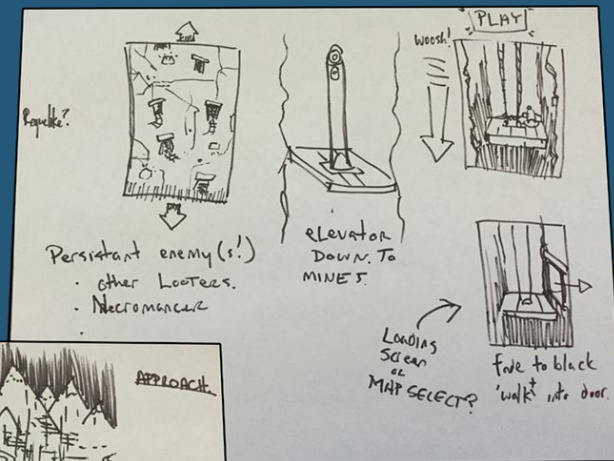
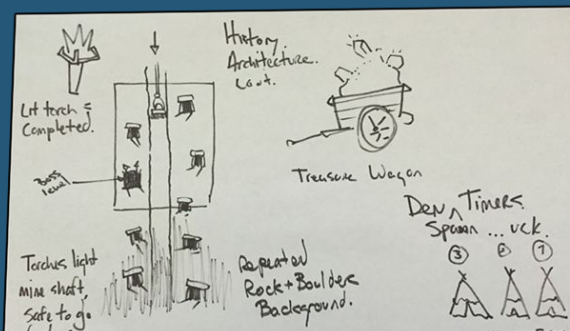
Working on a side project is a **significant** undertaking. Because **time** is a limited resource, you begin to value it more than quality or cost.

You can **gamify** your time by min/maxing it:

- Lean on **what you know**.
- Constantly examine **priorities**.
- Time block **experimental** phases.
- Find opportunities for **scalability**.
- **Communicate** effectively and often.
- Be **mindful** of how your work affects **teammates**.

# Ruins of Glitterdeep VISUAL DEVELOPMENT

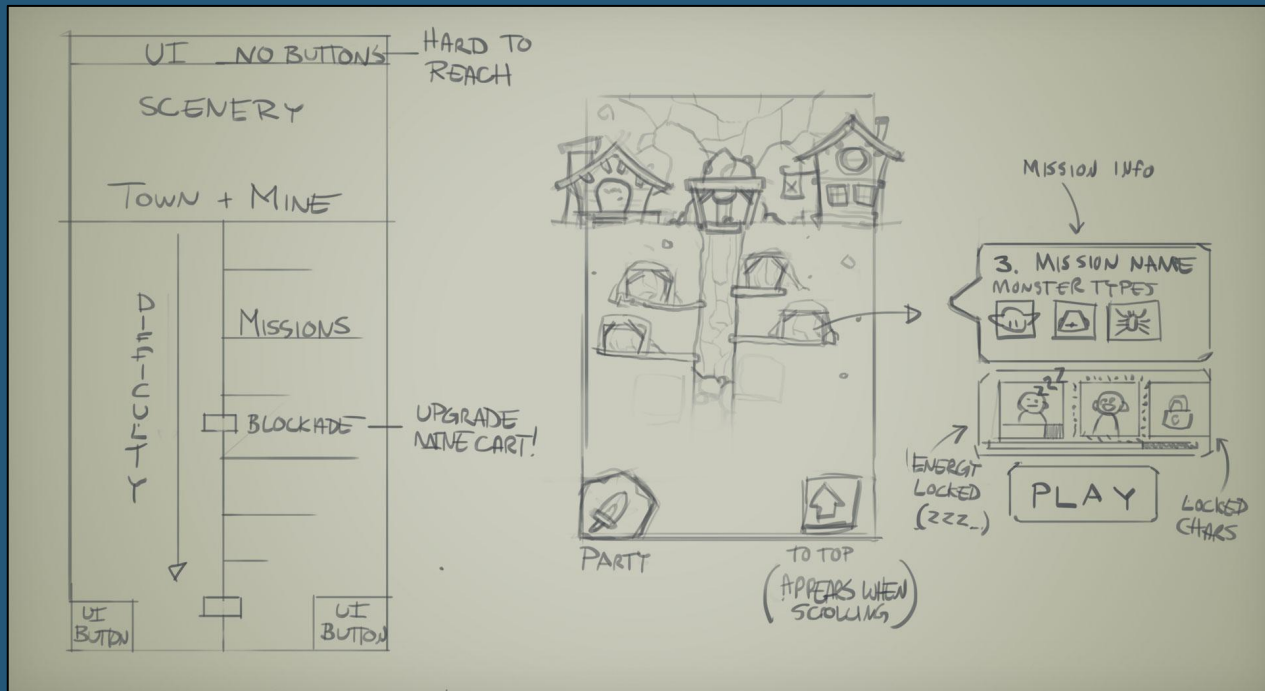
Concepting. Rough sketches + braindump.



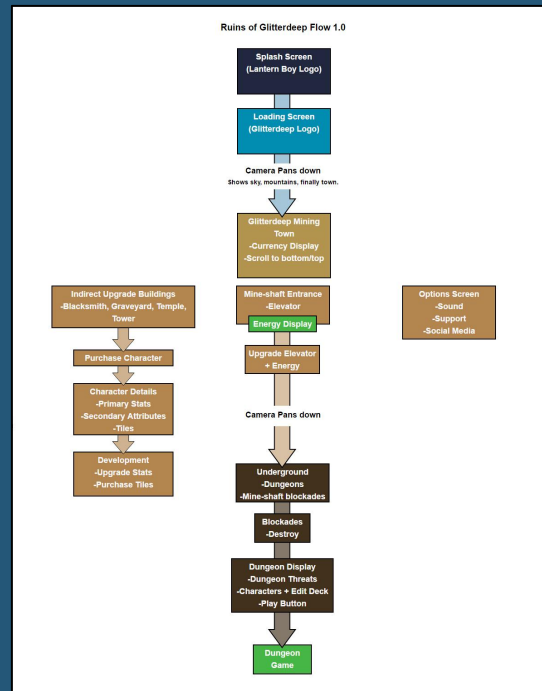
Rough sketches exploring the possible experiences players will have exploring the world, choosing dungeons to loot, and upgrading the characters they acquire.

# Ruins of Glitterdeep VISUAL DEVELOPMENT

Concept synthesizing. A good high-level starting point.



Created a refined sketch to communicate the ideas to the team. We discussed technical feasibility and laid out a battle plan.



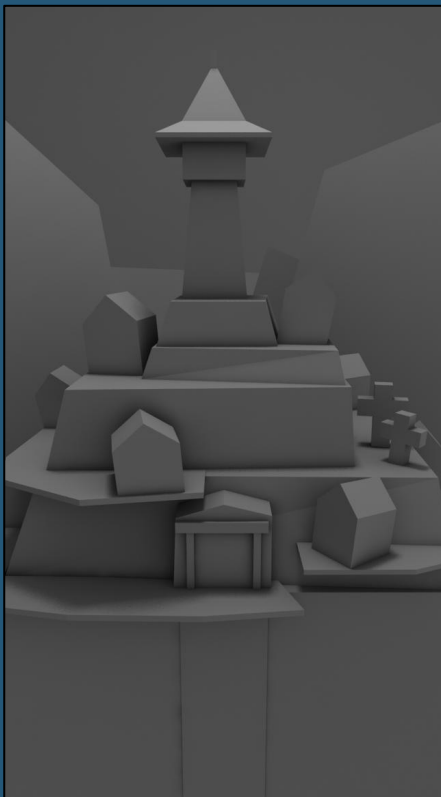
A linear flow is simple for players to use and digest.

# Ruins of Glitterdeep **VISUAL DEVELOPMENT**

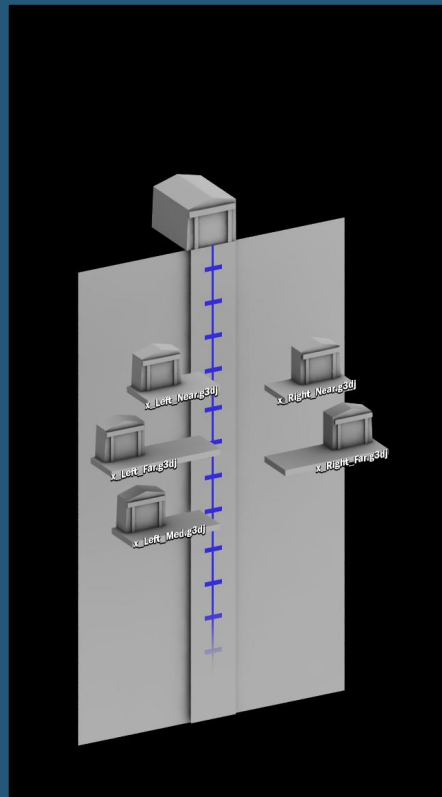
Analyze team feedback + begin prototyping.



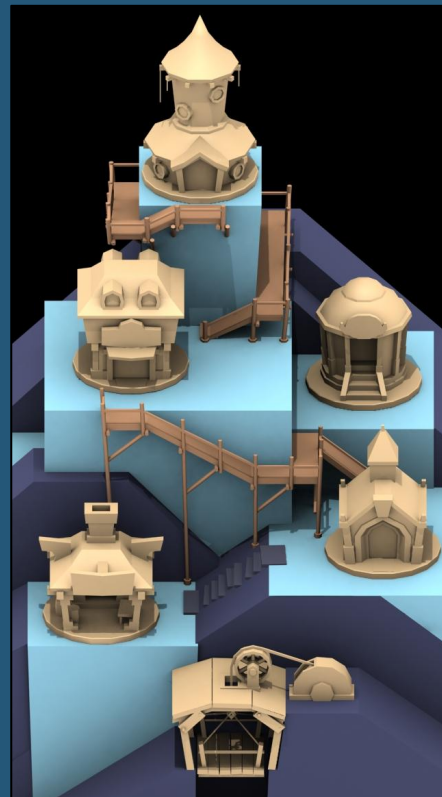
New town layout sketch



Town model whitebox



Dungeon schematic



Town model refinement

Test, define problems, iterate solutions.

The prototype had the town built on the top of a mountain, with the wizard's tower on the peak.

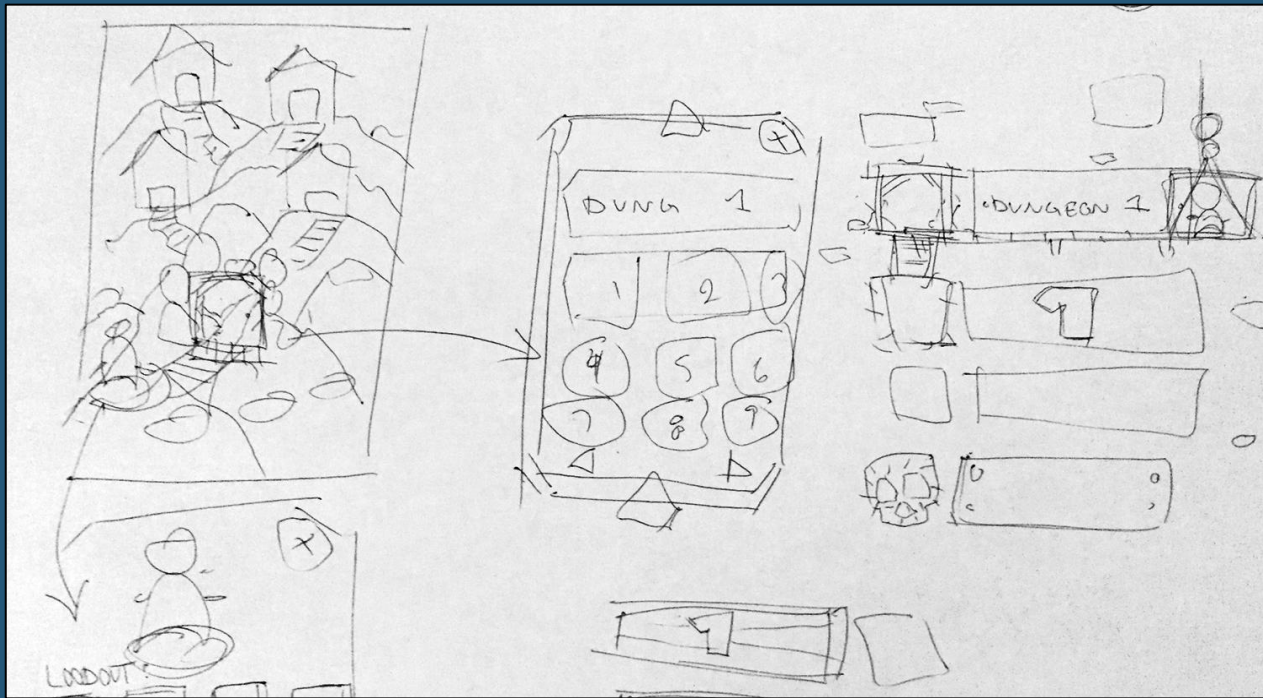
**Scalability** became an obvious issue, each time we want to add or remove a building, the design of the mountain needs to adjust, **requiring** a lot of work.

The number of buildings required for launch was **reduced** from 6 to 4, but the two removed would be added in the future.

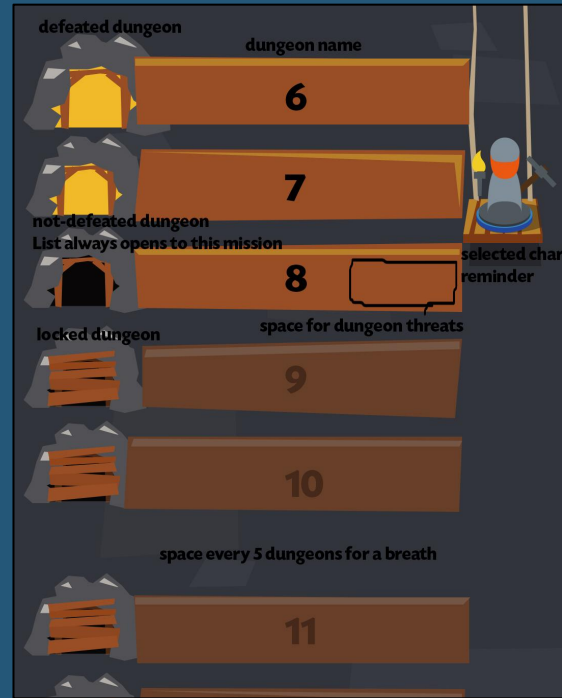
The solution takes advantage of the vertical orientation of the game. By stacking each building on its own peak, I created **flexibility** for adding and removing buildings to the mountain.



Test, define problems, iterate solutions.



Accessing dungeons below the town by scrolling became a **frustrating** experience. As the player progresses, they unlock more dungeons, further from the town, increasing the distance required to scroll.



A procedurally generated dungeon **list** was the **best solution** for players and devs.

# Ruins of Glitterdeep VISUAL DEVELOPMENT

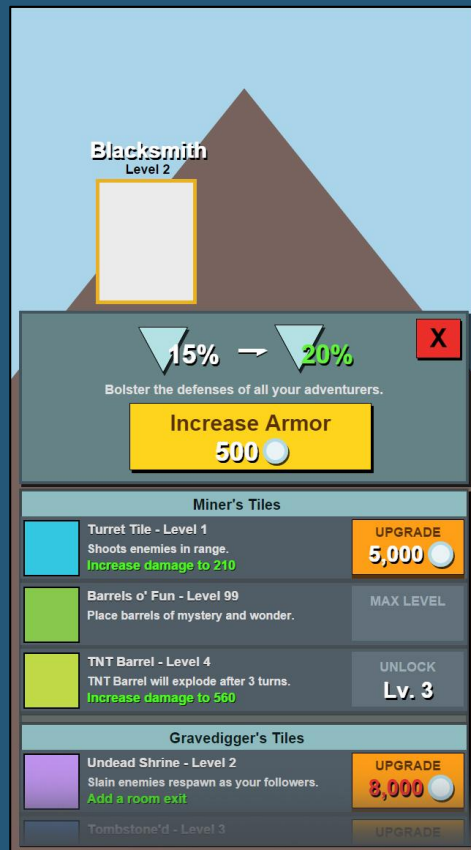
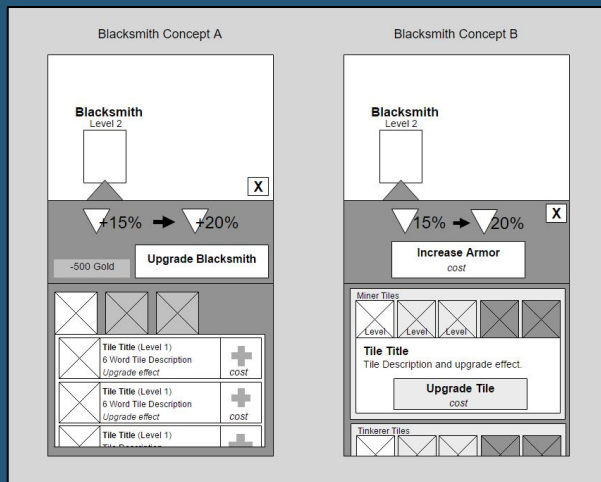
Refinement and Integration.



The players no longer have to scroll past the town to find the dungeon they want to loot. Tapping the mine entrance in the town opens a list that **auto-scrolls** to their furthest progression, presenting the ideal choice.

# Ruins of Glitterdeep VISUAL DEVELOPMENT

Wireframe ideation. Blacksmith Shop - character upgrade interface.



Though the character upgrade system was still in its infancy, we wanted to create some visuals that may illuminate the issues a player may have interacting with it.

The wireframes brought to light the unnecessary complexity of the upgrade system, and allowed us to re-evaluate early in development.

# Ruins of Glitterdeep VISUAL DEVELOPMENT

Style concept exploration. Blacksmith Shop - character upgrade interface.



Material and scale exploration



Less rigid sketch to loosen up



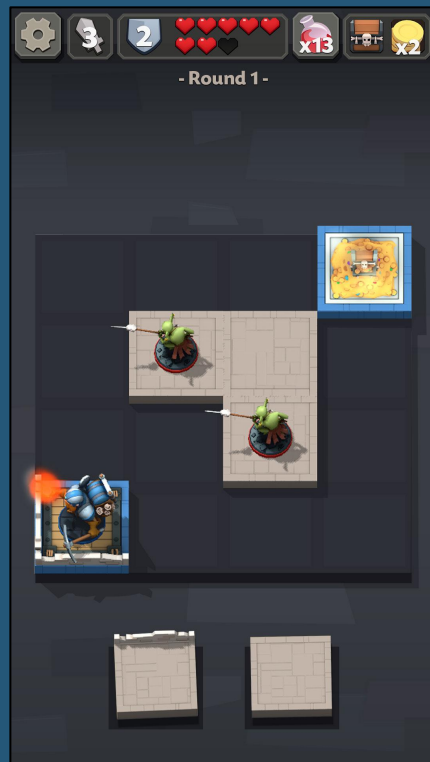
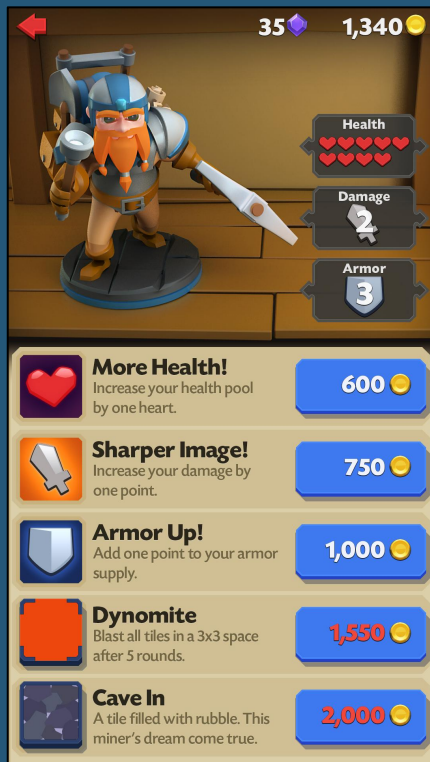
Refined sketch with data

The original vision for the style was heavy on **fantasy** themes. Metal frames, wood grains and bolts to make the UI feel **crafted**. I needed to re-evaluate the **effort required** to implement the style. I began to move towards a UI that is simpler and bold, with small fantasy flourishes.

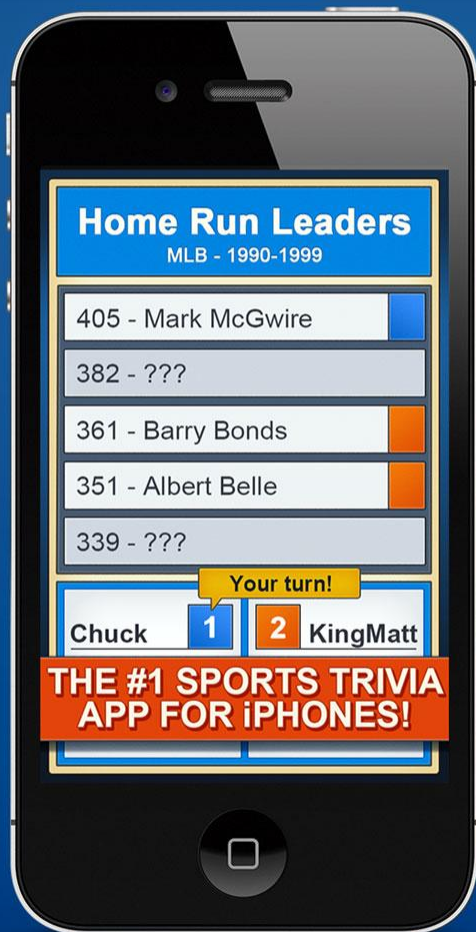


# Ruins of Glitterdeep VISUAL DEVELOPMENT

Wireframe conceiving. Blacksmith Shop - character upgrade interface.



A simple UI style saves time by **adapting** to system changes easily and **facilitates** new feature development.



Chucksports is the multiplayer sports trivia app available on the iOS store.

[www.Chucksports.com](http://www.Chucksports.com)



**TAKE ON EVERYONE  
AT THE SAME TIME!**



**COMPETE IN A NEW  
GAME EVERY DAY!**



**THOUSANDS OF  
GAMES TO PLAY!**

[See more about how I designed, styled, and marketed Chucksports](#)

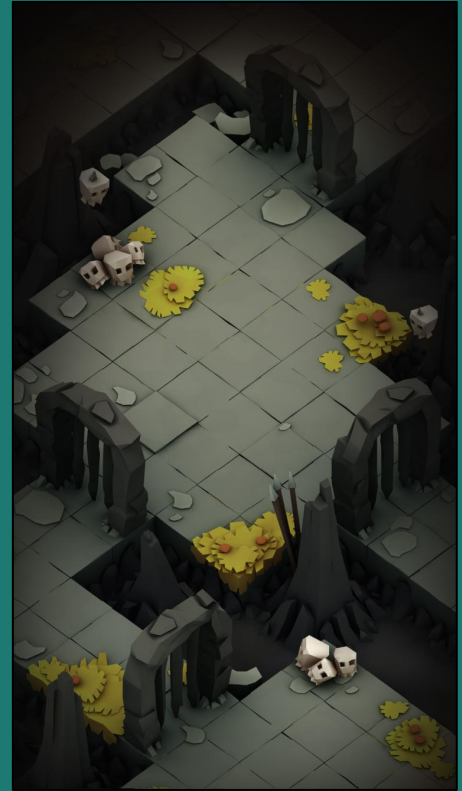
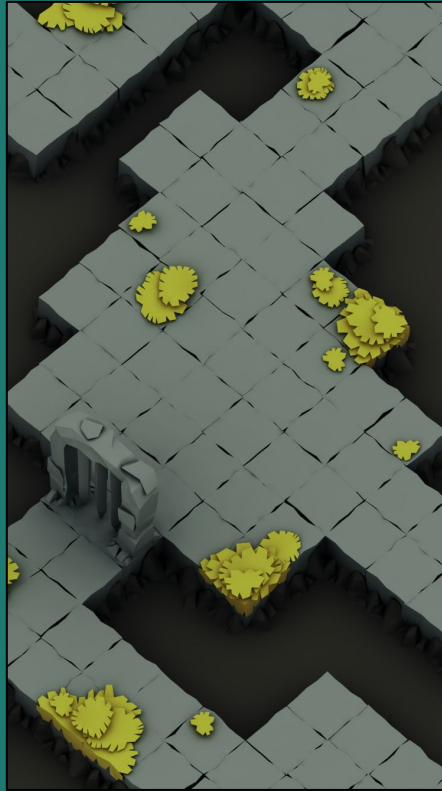
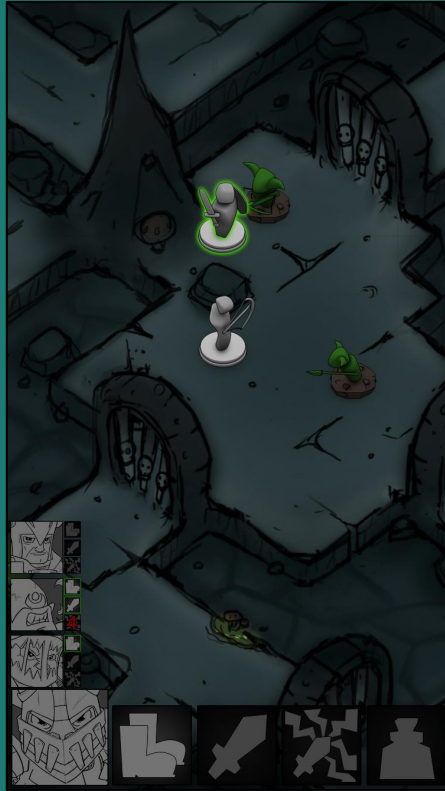
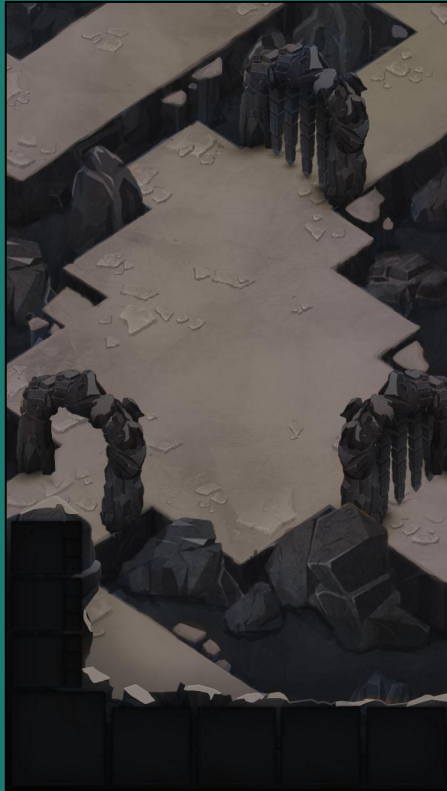


COMPETITIVE HEARTHSTONE COMMUNITY



## Other Fun Stuff **PROJECT DAISY**

Style conceptualizing -> Tool exploration -> Polished production assets.



James DeGruttola

## UI/UX Portfolio

Thank you for taking your time to look at my portfolio, below are some links to other collections of my work.

### ARTIST PORTFOLIO

Want to see some art? I've got a whole other portfolio just for that. Click here and check it out!

### DEV BLOG

I like to write about the problems I have faced through different phases of game development and creative content creation.

JDEEGZ@GMAIL.COM

RESUME