Dinner Party

- Technical Risk Assessment -

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- EGD-220-04 -

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DIFFICULTY SCALING SYSTEM

Document Scaling System

Scaling Overview

• This document uses a 1 through 5 difficulty scaling system where 1 represents very easy, and 5 represents extremely difficult.

Difficulty Representation

• The difficulty will be represented using puzzle pieces shown below:

ART WILL BE CHANGED ONCE ART IS RECEIVED FROM ARTISTS

***************************************	Represents 1 out of 5 Very Easy - No trouble to implement
***********	Represents 2 out of 5 Easy - No trouble to implement but may take more time than usual
******	Represents 3 out of 5 Medium - More thought than usual went into planning and implementing
*******	Represents 4 out of 5 Moderately Difficult - A lot of planning and time went into implementing
	Represents 5 out of 5 Very Hard - Very difficult to plan and to implement. Most likely would take too long to implement before a deadline

THE DELIVERY PLATFORM

Main Delivery Platforms



- *Dinner Party* is designed with iPad heavily in mind.
- The game utilizes and was intended for tablets as these devices can be easily passed around.
- Tablets are also a good option as they provide touch input which is easy and intuitive for most users.
- Dinner Party is heavily focused on passing a device around a group of people,
 making tablets a favorable delivery platform.

THE DEVELOPMENT ENVIRONMENT

Programming Environment with Unity

Using The Unity Engine -

Unity Game Engine. Unity comes with a lot of built-in features that are right at the hands of the developer's. Having access to



these features eliminates the need to construct a game engine tailored to the game from the ground up, thus saving a great deal of time.

- A majority of the team is comfortable using the Unity Engine which translates to a more efficient workflow.
- Unity is also extremely useful because it allows for cross-platform development.
 - This comes in handy as the developers can simply export the game to a
 mobile or tablet version of the game with little overhead—saving time and
 money.

THE DEVELOPMENT ENVIRONMENT

(Continued)

Resource Environment

Adobe Photoshop -

 All of the art assets used for the game will be created in the Adobe Photoshop art program.
 Photoshop is a very widely known and well supported graphics tool



that allows for users to create things of all shapes and sizes. It can be used to draw or edit photos. The program mainly works in a raster format and not vector format which works perfectly for *Dinner Party* as the assets will be pixel based and not vector based.

THE DEVELOPMENT ENVIRONMENT

(Continued)

Version Control



 The choice of version control for this project is Subversion (SVN). In Pineapple, there is a subversion repository linked where all of the team members can monitor and



update the game files. The use of Subversion will help the team make sure all of the game files are up-to-date and where they should be in regard to meeting deadlines.

• In the repository on pineapple there is a root folder called "Unity Tree" that holds all of the different branches and builds for the game. This makes it more convenient to pinpoint certain builds that might have bugs in them in addition to keeping backups and snapshots of different build milestones.

GAME MECHANICS AND SYSTEMS

Game Systems



 At the beginning of each game, the users need to pick how many players are in the game, as well as how many different types of roles they would like in the game. Once the users input this information into the game, the game randomly assigns each user a role.

Pass and Play -

 After all users are assigned a role, the game allows for each player to see their given role. The users pass the tablet to the current user and then that user can click a button to read what role the game gives them.

Game Mechanics

Touch Input -

Because *Dinner Party* is designed for tablets, the game uses a touch input system.
 Touch is fairly easy to implement using Unity which saves on time which can be used in other areas of development for the game. In addition to being nice to develop, touch is intuitive for users that use tablets.

THE ART PIPELINE

Creating the Art

• Since *Dinner Party* is primarily a game for iPads and Tablets, background art assets are drawn with a 4:3 aspect ratio in mind as this is the ratio that the iPad uses. *Dinner Party* uses dark, muted colors, interspersed with bright whites. The main colors outside of the monochrome are red and purple.

Using the Repository

Step 1 - Download TortoiseSVN

The first step is to download
 TortoiseSVN. TortoiseSVN is



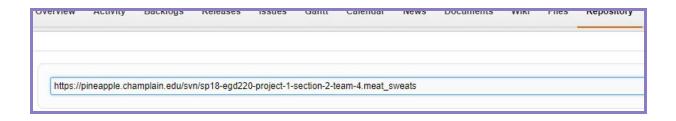
a client software that allows the user to upload documents and files to a server for other members with access to view and manipulate. TortoiseSVN is free, easy to learn, and easy to use.

THE ART PIPELINE

(Continued)

Step 2 - Navigate to Pineapple

 Once downloaded, the user should log into Pineapple and under the team's "Repository" tab, there will be a URL.



Step 3 - Create TortoiseSVN workspace folder

 The user should copy the URL to the computer's clipboard by using the hotkey CTRL + C. Once that is done, the user should create a folder on their desktop or other location of choice. Right-click on the folder and choose the option called "SVN Checkout."

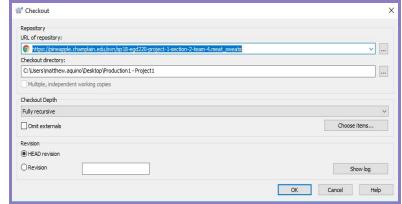


THE ART PIPELINE

(Continued)

Step 4 - Paste Pineapple URL in TortoiseSVN

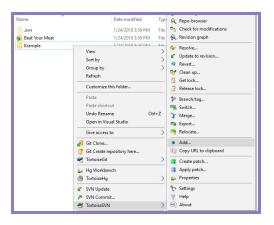
previous step should automatically be placed in the window that pops up. The user should click "OK" and log in with



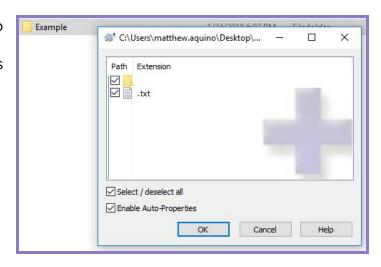
their Pineapple credentials when prompted. This will load all folders in the repository into the folder they've created.

Step 5 - Add Files/Folders to the Repository

• If the user wishes to add a new folder to the repository, all they simply have to do is copy the new folder into the repository folder, right-click on it, highlight the "TortoiseSVN" option, and select "Add."



 Select the folders you wish to add, or choose specific files to add, and click "Ok."



Step 6 - Commit New Files to the Repository

Finally, simply commit the folder by right-clicking on it, and selecting "SVN Commit...". Click "Ok" and the folders should be uploaded to Pineapple. It is very important to always update and commit any new versions of work so that the team is always up-to-date.

Loading the Art in Unity

 The art will be loaded directly in by the designers and / or programmers once the art has been uploaded into the repository.

THE DESIGN PIPELINE

Unity Engine



- Dinner Party focuses heavily on UI elements to make the game understandable for the players involved. Designers as well as Artists are able to go into Unity and add in the desired UI elements in certain Scenes which will later be wired into the game by the Programmer.
- UI is very important for *Dinner Party* to work as effectively as possible, which is why it
 is encouraged for the Designers and Artists to plan and implement intuitive and helpful
 UI placement.

Milestone #1

Deliverables:

Artist Concepts

• Three styles for possible art direction were created.

Visual Design Document (VDD)

• Guide for core mechanics.

Game Rules Document

• Rules pertaining to the game were outlined.

Physical prototype

Board was created and tested.

Goals for Next Milestone:

 Create a functioning digital prototype that effectively conveys the game's core mechanics

(Continued)

Milestone #2

Deliverables:

Digital prototype

• Start to an implementation of the core mechanics.

Art Style

• Solidified the art style for the game

Technical Plan

• The technical plan has been started and is currently being iterated upon.

Goals for Next Milestone:

• Deeper implementation of Core Mechanics

(Continued)

Milestone #3

Deliverables:

TBA

Goals for Next Milestone:

TBA

(Continued)

Milestone #4

Deliverables:

TBA

Goals for Next Milestone:

TBA

(Continued)

Milestone #5

Deliverables:

TBA

Goals for Next Milestone:

TBA

(Continued)

Milestone #6

Deliverables:

TBA

Goals for Next Milestone:

TBA