**GAME DESIGN DOCUMENT (GDD) TEMPLATE**

**Concept Document**

The concept document serves the purpose as a way to present a game concept. A general overview of the game, with the idea anyone can read and understand what the game is like. This part of the document is one that will change very little once the concept is accepted.

**Title Page**

The title page includes general information about the game:

Game Name :

Game Logo :

Game Catch Phrase :

Document Type :

Document Version :

**Credit Page**

The credit page should present information about the person who authored the document and for

what company.

Document Purpose:

Document Version:

Working Title:

Game Concept:

Game Document Author:

**Sign-Off**

The sign-off section lists all the people involved (by rank and role) and confirms that each member of

the team has read through the document and agrees with the current plan.

GAME CONCEPT SIGN-OFF

Lead Artist:

Lead Designer:

Lead Programmer:

Lead Producer:

**Introduction**

The introduction should include a brief sentence or two about the game, its genre, player type, technical form, references, and theme. Everyone that reads this should be able to understand what the basic idea of this game is.

A new purpose for the introduction can also be the reason for the concept and history of the game the concept is based upon. Here is a short list of subjects to address in the introduction:

* Genre
* Player Type
* Game Play
* Technical Form
* History
* Reference
* Theme
* Design Intentions (original or cloned)

**Game Analysis**

The game analysis provides a general overview of the game.

**GAME DESCRIPTION**

Genre:

• Describe the Genre

Example:

™ Role-play

™ Adventure

™ Strategy

™ Puzzle

™ Simulator

™ Construction & Management

Game Elements:

• Game elements are the basic activities the player will be doing for fun during the game.

Example:

™ Shooting

™ Collecting

™ Chase

™ Combat

™ Dodging

Game Content:

• Example:

™ Horror

™ Thriller

™ Humor

™ Drama

Theme:

• Example:

™ Western

™ Sci-Fi

™ Fantasy

Style:

• Example:

™ Real

™ Old School

™ Manga

Game Sequence:

• Example:

™ Linear- Storylines

™ Hyper- Storylines that the player can influence

™ Simulation

Player:

• The Number players that can play the game at once

**GAME REFERENCE**

Game Taxonomy:

• Game Taxonomy is here as a reminder of what the design direction is.

• Game Taxonomy is made up of Simulation, Game and Narrative based. These can further be divided into Chance, Simulation and Narrative. This is further divided into fiction or non-fiction.

• Example: Xyanide is a Fictional Game/Narrative, while Sim City is a Non-Fictional Simulation/Game.

Player Immersion:

• This is an attempt to understand what kind of enjoyment the player will receive from the game.

Example:

* Tactical
* Strategy
* Narrative
* Physical
* Emotional
* Mental

Reference:

• References can come from anywhere.

• The idea is to describe your game’s story, play, and style with references.

**GAME TECHNICAL**

Technical Form: • Basically there is 2D graphics (Flat) and 3D graphics (Form)

View: • Camera view the player will experience the game from

Platform: • iOS, Android, Mac, PC

Language: • C#, C++, Ruby, Java

Device: • PC, Mobile, Console

**GAME SALES**

Consumer Group: • This could involve conducting a research or focus group with actual consumers to gather or validate market acceptance data

Payment: • This could involve discussions on monetizing the game and receiving payments from customers

Estimated Price: • This could involve market sizing and market pricing strategies for the game product

**Game Atmosphere**

In the game atmosphere section, it is best to have a mood board or a clear description of the game’s style. This is a good place to start interacting with a graphic designer.

• Atmosphere Mood Board

• Character/Units Sketch & Description

• A Level (Locations) Sketch & Description

• Audio Description

**Game Play**

The game play section is utilized to create a descriptive paragraph about how the game is played. The idea is that you want the person to imagine they are actually playing the game. Try not to use generic (i.e. broad, non-descriptive) names when writing about the game play.

Example: Few readers want to hear statements such as: “enemy\_1 will have more hit points than enemy\_2.” Instead, it is better to make statements such as: “the Lazarus Fighter has more armor than the Apollo Fighter.”

This outline will vary according to the type of game.

* Opening the game application
* Game Options
* Story Synopsis
* Modes
* Game Elements
* Game Levels
* Player’s Controls
* Winning
* Losing
* End
* Why is all this fun?

**Key Features**

Key features are a list of game elements that are attractive to the player. It may be a good idea to research the key points below or consult with a professional marketer.

* Number of Levels
* Number of Enemies/ Characters (Example: 12 characters or amount of enemies, end bosses)
* Time of Game Play (Example: 2 hours of fun)
* Replay ability
* Audio Specifications
* Graphic Specifications
* Device Compatibility
* Number of Players
* Online Activities (high scores, etc.)
* Number/Type Modes

**Selling Features**

This is a list of features that could be potentially helpful to market and/or sell a game. If a game has any copyrightable material, note it here. It may be a good idea to research the key points below or consult with a professional marketer.

* Marketing Ideas
* Consumer Group
* Unique Features
* Merchandising

**Design Document**

This document describes how game objects behave, controlled and properties they have. This is often referred to as the “mechanics” of the game. This documentation is primarily concerned with the game itself. This part of the document is meant to be modular, meaning that you could have several different Game Design documents attached to the Concept Document.

**Design Version**

A version can single out a certain series of devices that may have limitations, different OS or more advanced features. A code convention for different versions would be advisable.

Example: Such as J1.1

(J): (JAVA) Developed for a particular Technology

(1.): Concept Update

(.1): Content Update

**Design Guidelines**

This is an important statement about any creative restrictions that need to be regarded and includes brief statements about the general (i.e. overall) goal of the design.

**Game Design Definitions**

In this section, the definition of the game play is established. Definitions should include how a player wins, loses, transitions between levels, and the main focus of the Gameplay.

Issues that should be addressed here are:

* Menu
* Synopsis
* Game Play
* Player Control
* Game Over (Winning & Losing)

**Game Matrix**

The game matrix is a spreadsheet containing the generic names of the player and antagonistic elements and their game properties. This should allow an easy cross reference for any elements in the game that have numerical or other descriptive values associated with their name.

**Game Flow Chart**

The game flow chart provides a visual of how the different game elements and their properties interact. Game flow charts should represent Objects, Properties and Actions that are present in the game.

Flow chart objects, properties and actions should have a number reference to where they exist within the game mechanics document.

**Player Elements**

The player elements section lists all the elements that are directly related to the player or serve to benefit of the player.

Devise two sets of names for player elements. One set is a generic name (or code) and the other is its game name. Describe the terminology that you use to describe the player’s properties.

This is a good place to interact with a graphic designer to ensure the game graphics match the game names. Graphics that will be seen during game play should be exhibited here.

Multi-player issues should also be mentioned here.

**Player Definition**

Use the player definition section to make quick descriptions that define the player. Below is a suggested list of player definitions:

* Default (Status): What are the default settings for the player at the beginning of the game or level?
* Actions: What can the player do?
* Information (Status): What information about the game is available for the player?
* Default Properties: How does the player begin the game?
* Winning: How can the player win?
* Loosing: How does the player lose?

**Player Properties**

Make a list within the player properties section that defines the properties for each player. Player properties can be affected by player’s action or interaction with other game elements. Define the properties and how they affect the player’s current game .

A suggested list of player definitions may include:

• Health

• Weapons

• Actions

• Etc .

Each property should mention a feedback as a result of the property changing!

**Player Rewards (Power-ups & Pick-ups)**

Within the player rewards section, make a list of all objects that affect the player in a positive way.

(i .e . health replenished)

Define these objects by describing what affect they cause and how the player can use the object.

**User Interface (UI)**

This is where a description of the user’s control of the game can be placed. It is also recommended to think about which buttons on a device would be best suited for the game. Consider what the worst layout is, then ask yourself if your UI is it still playable?

A visual representation can be added, where we relate the physical controls to the actions in the game.

When designing the UI, it may be valuable to research quality control and user interface (UI) design information.

**Heads up Display (HUD)**

The HUD section is where a description of any graphics that will represent information during game play should be described.

A visual representation (mock-up screenshot) here would be useful.

This is another good place to seek the advice or collaboration of a graphic designer.

**Player View**

A screen shot is very necessary in the player view section.

It is also beneficial to include a definition of how the camera moves for the player.

Finally, a (mock-up) overview of the level relative to the screen size will help create a perspective of a levels size compared to what is actually seen.

**Antagonistic Elements**

This is where a list of antagonistic (i.e. enemies, opponent) objects should be listed with graphics and written description.

Describe the terminology that you used to describe antagonistic properties.

Devise two sets of names for player elements. One set is a generic name (or code) and the other is its game name.

This is another good place to collaborate with a graphic designer to ensure the game graphics match the game titles, names, and descriptors.

**Antagonistic Definitions**

This where a description goes of what makes an antagonistic element.

**Antagonistic Properties**

This is a list of properties that antagonistic elements have in common.

**Antagonistic List**

This is where a list of all the antagonistic elements goes.

**Artificial Intelligence (AI)**

This is where visuals and written description(s) of the antagonistic element’s behaviors. These should be labeled in such a way that they can be used in level design without having to describe them again.

Devise generic names for repetitive behaviors.

This is how an AI action could be deconstructed:

* Normal State: What is the object doing if it has not come in contact with the player?
* Detection State: What does it take for this object to detect the player?
* Reaction State: What does the object do as an action after passing the reaction state?
* End State: What happens to the object after player has reacted correctly or incorrectly to object?

**Global Game Elements**

In this section, it is important to describe the boundaries, neutral objects, camera views and scale of the world.

Neutral game world objects can be things like a static background, objects that do not interact with the player or antagonistic elements.

**The Story**

This is where the story can be described in detail. A story board can be used to tie in graphics to the text. This can later be used for splash screen concepts.

**The Story Copy**

A shorter version of the story (the in game version) should also be written here. This is where the script for in game characters or story information during the cut scenes would be placed. This category does not always pertain to the current Game Design.

**Concept Art**

Sketches that are used for the concept can go into this section as visual reference. In the case of a brand, certain creative restrictions should be noted here. This is a good place to collaborate with a graphic designer to ensure game graphics match game names.

**Level Design**

This is where information pertaining to level design and visuals of the level design goes. Level design can best be shown as a flow chart. Use generic names to create level design.

**Level Copy**

This is where the script for in game characters or story information during the cut scenes would be placed.

**Audio & Sound F/X**

This is where game audio and Sound F/X should be listed, first with generic names and then described.

This section also includes deciding if you will use a device’s vibration ring mode.

**Game Architecture**

The game architecture section is best produced using a flow chart to represent the overall game.

Be sure to identify (i.e. name, number) each screen.

* Title Screen
* Option Screens
* Game Modes
* End Screens

**Game Architecture Overview**

The splash screens or video clips need to be in accordance to game story and style. If cut scenes use video then story boards should be created.

Menus should be designed with the most important options easily accessible. Be aware how many clicks it takes to accomplish a task.

The game Instructions should be written so that the player understands how to play the game.

Mock-ups should be made so that the game programmers get the correct layout of the menu.

It is a good idea to mention and describe the high score screen in this section.

**Architecture Copy**

All text from the game can be compiled here.

Review the Game Architecture Overview section.

**How To Play Copy**

This section will organize the game copy. The game copy includes information for the player, clearly describing how to play the game.

**Technical Document**

The information concerning the technical aspects of the game should be placed here. The technical document is best achieved with consensus from the people responsible for the Visual, Programming, and Audio aspects. This part of the document is meant to be modular. This means that it is possible to have several Game Technical documents attached to the Game Design Document (GDD).

**System Requirements**

This is a list of system requirements that a device will have to meet to run the game.

This also represents the restrictions that may apply to the end product.

**Visual Content**

A list of technical requirements from those in concerned with the visual aspects of the game. All objects should be listed with their generic names.

* General

™ File Size Restrictions

™ File Format Type

™ File Quality Type

™ Visual Scale

* Player Elements

™ Type of States (Default, Damage, Destroyed, ect .)

• Amount Animation Frames

* Heads Up Display (HUD)

™ Type Icons

™ States

™ Font Type

* Antagonistic Elements

™ Type of States (Default, Damage, Destroyed, ect .)

™ Amount Animation Frames

* Global Elements

™ Background/Texture/Tiles

™ Font Type

**Audio Content**

This is the section for organizing the audio content. It is very important to communicate with the audio designer before and while the audio content is being developed.

* General

™ File Size Restrictions

™ File Format Type

™ File Quality Type

* Player Elements

™ Type of Sound f/x

™ Device Vibration

* Antagonistic Elements

™ Type of Sound f/x

™ Device Vibration

* Global Elements

™ Ambient Music

* Splash Screens

™ Ambient Music

* Menus

™ Type of Sound f/x

**Programming Content**

The programming content section should help permit good collaboration with the programmer. The objective of this section (and task) is to try to organize and modulate as much as possible.

* General

™ Requirements

™ File Size Restrictions

™ File Format Type

™ Specify Coding Conventions

™ Language/Device Restrictions

™ Screen Type (Small, Medium, Large)

* Player Elements

™ Type of Event

* Antagonistic Elements

™ Type Event

* Global Elements

™ Type of Event

* Splash Screens

™ Type of Event

* Menus

™ Type of Event

™ Type of Options

**Code Structure**

This is where an overview of how objects/functions/data interact, a list of what specified functions/routines do and a list of what order modules will be written.

**Concerns and Alternatives**

If there are concerns about something technical, they should be stated here, along with any alternatives to the concern.

**Resources**

The resources section lists applications and equipment that are acceptable for use in the development of this game. This begins to satisfy a legal challenge that developers must begin to be aware of.

**Technical Matrix**

The technical matrix section will be split into the different device series for each content category.

The technical matrix includes the content lists of Audio, Visual, and Programming.

**GAME MODIFICATION PLAN**

**Game Reviewed: Game Platform:**

1. Create a revised object of the game based on your ideas and recommendations to improve it.
2. List 3 or more specific changes you would make to the game. Why and how will these changes improve the game?
3. List 3 or more reasons why the original designers did not choose these changes and ideas you identified.
4. List 3 or more reasons why these changes may be difficult to include if the game were revised.
5. Briefly explain why you would like to make these changes.

**GAME MODIFICATION TASK SHEET**

**Game Reviewed: Game Platform:**

1. Provide a detailed overview of the object of the game.
2. List 3 or more things you like about the game. Why?
3. List 3 or more things you do not like about the game. Why?

List 3 or more reasons why you think the game you are reviewing is successful.

**GAME PITCH PROPOSAL (TEMPLATE)**

A Game Pitch Proposal should be brief (e.g. 9 pages maximum) and clear (e.g. 12 point font). The typical Game Pitch Proposal includes:

1. Cover page: Title of project and group members
2. Executive summary (1/2 page max): Briefly describe the game in two paragraphs.
3. Game Description (7 page max): Describe the game in greater detail.

(Label and include the following 8 subsections listed below)

1. Overview: (1/2 page max) Big picture of the game, main quest, main players, etc.
2. The Quest: (1/2 page max) Describe the quest in further detail, obstacles, rewards, and the final objective. Is the game broken into levels or intermediate stages of gameplay?
3. Main Character: (1/2 page max) Describe main character, powers, change with gameplay, first-person, third-person?
4. Sketch of Main Character: (1 page max) A sketch of the Main Character.
5. Opponents: (1/2 page max) Describe main opponents, intelligence, attack, hide, or evade?
6. Sketch of Opponents: (1 page max) A sketch of the primary Opponents.
7. Environment: (1/2 page max) Description of the environment in which the game is played, outer space, urban, futuristic, etc.
8. Sketch of World: (1 page max) A sketch of the level in which the game is played.
9. Menus: (1/2 page max) initial menu screen and any options include a sketch.
10. Controls: (1/2 page max) Describe interface (up, down, run, shoot, fast, slow).
11. Sounds: (1/2 page max) Describe background sounds: music, footsteps, Vehicle, Door, etc.
12. Summary (1/2 page max): This is the final sales pitch. Include a brief summary that would make someone want to buy your game!

**WORK BREAKDOWN STRUCTURE (WBS)**

Project Name: Name:

|  |  |  |  |
| --- | --- | --- | --- |
| **Level** | **WBS Code** | **Element Name**  **(Development Steps)** | **Definition**  **(Clearly define work to be done)** |
| 1 Startup | 1.1 Game Description | 1.1.1 Develop game description | Complete written game description |
|  | 1.1 Identify assets | 1.1.2 Research and locate assets | Purchase and download game assets |
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**PROJECT CHARTER**

Project Charter

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| --- | --- |
| Project Name |  |
| Project Description |  |
| Project Sponsor |  |
| Project Team Member(s) |  |
| Project Objectives |  |
| Project Milestones |  |
| Assumptions |  |
| Project Completion Date |  |

We agree that this is a viable project. The Project Team Member(s) are authorized to begin the planning, design, and development process for this project.

|  |  |
| --- | --- |
| Project Sponsor |  |
| Project Team / Manager |  |