E-Team presents…

Project Sprint

Version: 0.0.1

A Game Development Project as Requirement for the course EMC131

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GAME DESIGN DOCUMENT

# Game Name: Project Sprint

## Genre: 2D Side-Scrolling Arcady Platformer

## Game Elements:

* Automatic running through levels filled with obstacles
* Being chased by a robot
* Avoiding hazards
* Collecting circles and hidden documents
* Platforming includes parkour elements
* Bar on screen that gives more points based on perfect execution
* Competing for best level time

## Player:

* Single-player only

# TECHNICAL SPECS

## Technical Form:

* Flat 2D graphics

## View:

* Side-scrolling 2D camera, following the player horizontally and vertically

## Platform:

* PC

## Language:

HTML and Javascript, using Phaser Engine

## Device:

* PC

# GAME PLAY

In *Project Sprint*, players take on the role of a future resistance figure on the run through a modern urban cityscape, relentlessly pursued by a deadly robot assassin sent back in time. The action unfolds as a fast-paced, side-scrolling platformer where the player automatically sprints through dynamically designed levels filled with obstacles that demand split-second timing and perfect execution. Players must master parkour-inspired movements—vaulting over barriers, wall-jumping between narrow gaps, and sliding under hazards—to stay ahead of their pursuer. The chase is intense and constant, with a visible timer and a precision execution bar rewarding players with higher scores for flawless runs. Along the way, players collect glowing circles to boost their score and uncover hidden documents that reveal the larger story behind the AI war. Having three levels, each present a new segment of the city, from towering buildings to precarious rooftops to a military base and ending on a weapons testing laboratory, each offering increasing difficulty and tighter margins for error. Only the most skilled runners will survive the chase and live to fight for humanity’s future.

## Game Play Outline

**Opening the game application**

* + Player launches *Project Sprint*.
  + Splash screen and logo appear.
  + Main menu loads with cityscapes background and game title.

**Game options**

* Toggle sound/music volume.
* Toggle screen resolution and window/fullscreen mode.
* Keybinding customization.
* View credits.

**Story synopsis**

* The year is 2025. Unknown to the world, an AI uprising is brewing. One man — a resistance leader in the near future — has become the key figure responsible for humanity’s fight against the machine. A robot assassin is sent to the present day to eliminate him before he can alter the tide of war. Now, he must outrun and outwit his pursuer through the city’s streets, rooftops, and hidden military facilities to survive and safeguard the future.

**Modes**

* **Main Story Mode:** Play through 3 story-driven levels.

**Game elements**

* Automatic sprinting through levels.
* Chase mechanic (robot follows the player).
* Parkour-style platforming (wall-jumping, vaulting, sliding).
* Collecting observation data (circles).
* Discovering hidden areas and collecting hidden documents.
* Precision execution (perfect flow) bar that rewards skillful movement.
* Level time and score display.

**Game levels**

1. **Office Buildings and Rooftops** – Starting level, introduces basic mechanics.
2. **Rooftop Escape** – Faster pace, more hazards and vertical navigation.
3. **Military Base & Weapons Lab** – Complex level design, final showdown.

**Player’s controls**

* Jump: Spacebar, W key, or Up Arrow
* Slide: S key or Down Arrow
* Change direction to left: A key or Left Arrow
* Change direction to right: D key or Right Arrow
* Sprint: Shift key
* Wall Jump: Move toward wall and Jump (Spacebar/W/Up)
* Pause: Escape or P key

**Player actions**

* Auto-run (changeable directions)
* Sprint (temporary speed boost, player controlled)
* Jump
* Wall-jump
* Vault over objects
* Slide under objects or hazards
* Precision execution (perfect flow chaining)

**Winning**

* Reach the end of the level before the pursuing robot catches the player or time runs out.

**Losing**

* Player gets caught by the robot.
* Player runs into a hazard or fails a major obstacle.

**End**

The player’s performance in collecting Observation Data and hidden documents determines the outcome of the final encounter:

* **Incomplete Observation Data:** The player escapes, but the robot suffers only superficial damage. The ending cutscene shows the robot severely damaged but managing to repair itself and resume the hunt, hinting that the threat is far from over.
* **Complete Observation Data only:** The player delivers significant damage to the robot, temporarily decommissioning it. However, an ending scene reveals that the machine is slowly repairing itself—leaving the future uncertain.
* **Complete Observation Data + All Hidden Documents:** The player deals devastating, lethal damage that completely destroys the robot. However, the final cutscene shows transmissions being sent back to the AI network—hinting that more assassins are already being prepared.

**Why is all this fun?**

* The **chase mechanic** delivers a constant sense of urgency and adrenaline.
* **Parkour platforming** is fluid and skill-based, rewarding player mastery.
* **Observation Data and document collection** adds depth and replayability—players will want to optimize routes to get the best ending.
* The **execution bar** provides feedback and rewards skilled movement, creating a "flow state" as players string together perfect runs.
* The game world and story offer **The Terminator/Vector-inspired dystopian atmosphere** that pulls players into a high-stakes narrative.
* Competing for **best level times** encourages replayability and skill perfection.

## Key Features

* Fast-paced auto-sprint 2D platforming with parkour-inspired controls.
* Chase tension: constantly being pursued by a deadly robot.
* Observation Data and Hidden Documents impact the story’s ending.
* Precision execution bar rewards skillful play.
* Timed runs encourage replayability.
* Branching endings based on collectible performance.
* Atmospheric, story-rich urban environments (city, rooftops, military base).
* Fluid player movement system that rewards learning and mastery.

# DESIGN DOCUMENT

## Design Guidelines

* Keep the tension constant — the player should always feel "chased."
* Movement must be **fluid** and **responsive**, allowing high skill expression.
* The art style should support **readability** — players must clearly see obstacles and threats.
* Robot presence should be **felt** at all times (audio cues, screen darkening, distance meter).
* The collectible system (Observation Data & Documents) must integrate naturally into level flow.
* Levels should reward exploration for advanced players without forcing it upon casual ones.
* Endings should feel impactful based on player performance.

## Game Design Definitions

* **Winning:** Player reaches the end of the level before being caught or colliding against a hazard.
* **Losing:** Player is caught by the robot or dies via hazard.
* **Level transitions:** After each level, progress screen shows data collected and player proceeds to the next stage.
* **Gameplay focus:** Tense, fluid chase experience with parkour platforming and a collectible-driven ending system.

## Player Definition

The player controls a **future resistance figure** being hunted through a modern urban landscape. Agile, skilled, and desperate, the player must use parkour and instinct to survive.

### Player Definitions

* **Health:** No health bar; one hit = failure (caught by robot or death by hazard).
* **Weapons:** None; this is a pure escape-focused experience.
* **Actions:** Auto-run, jump, wall-jump, vault, slide, precision execution.

### Player Properties

|  |  |
| --- | --- |
| **Property** | **Feedback** |
| Movement Speed | Automatic run (base speed), Sprint (player activated — burst of higher speed, allows longer jumps and can widen distance from the robot temporarily; limited by stamina/recharge or cooldown). |
| Precision Execution Bar | Fills on perfect parkour and flow of movements; visual/audio feedback. Higher bar multiplies score. |
| Robot Distance Meter | Visual UI element shows robot proximity; screen darkens as robot nears. |
| Robot AI Behavior | Robot auto-chases at a base speed but dynamically accelerates if the player misses flow sequences or makes mistakes during their run. It remains off-screen but briefly appears on-screen if the player makes a mistake, is nearly caught, or is finally caught. |
| Observation Data Collected | Displayed post-level; affects story ending. |
| Hidden Documents Collected | Displayed post-level; affects story ending if fully collected. |

### Player Rewards (power-ups and pick-ups)

* **Observation Data (Circles):** Main collectible — affects robot damage at the end.
* **Hidden Documents:** Unlocks more detailed lore and upgrades ending impact.
* **Precision Execution Bar Multiplier:** Higher multipliers give better score bonuses and leaderboard placement.

## User Interface (UI)

This is where you’ll include a description of the user’s control of the game. 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 you 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.