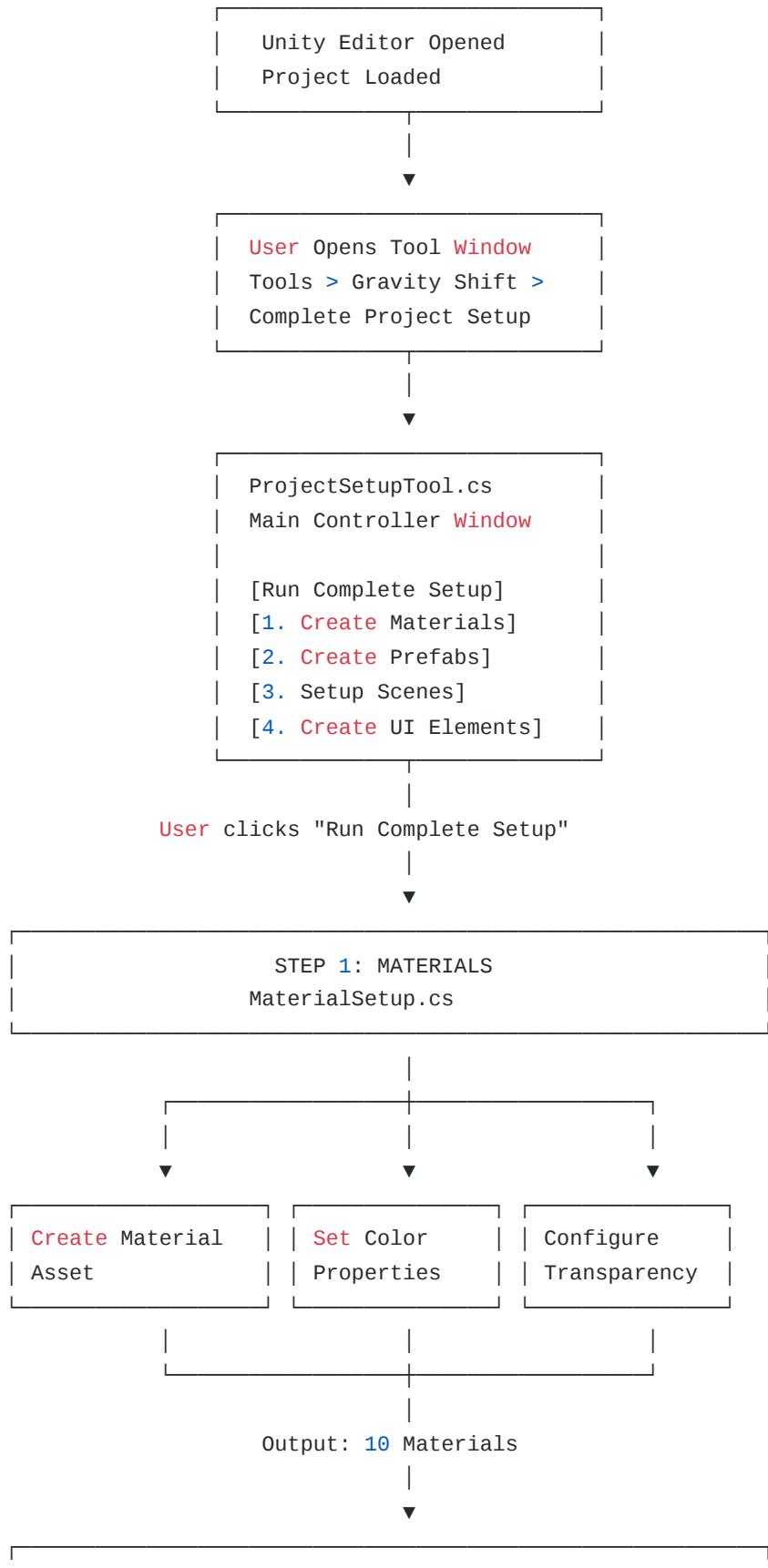


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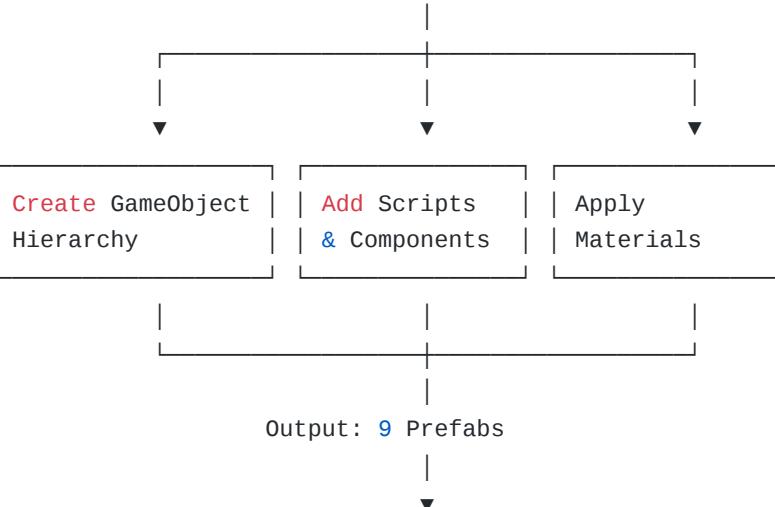
AUTOMATED PROJECT SETUP TOOL -

WORKFLOW DIAGRAM



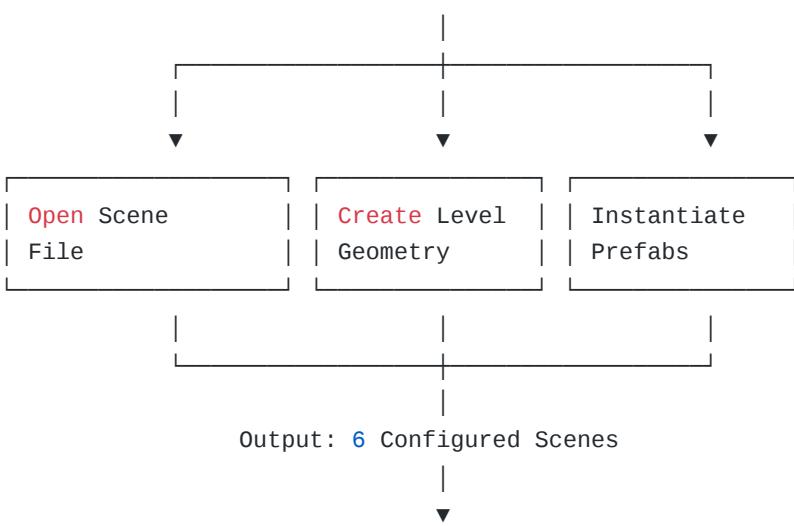
STEP 2: PREFABS

PrefabSetup.cs



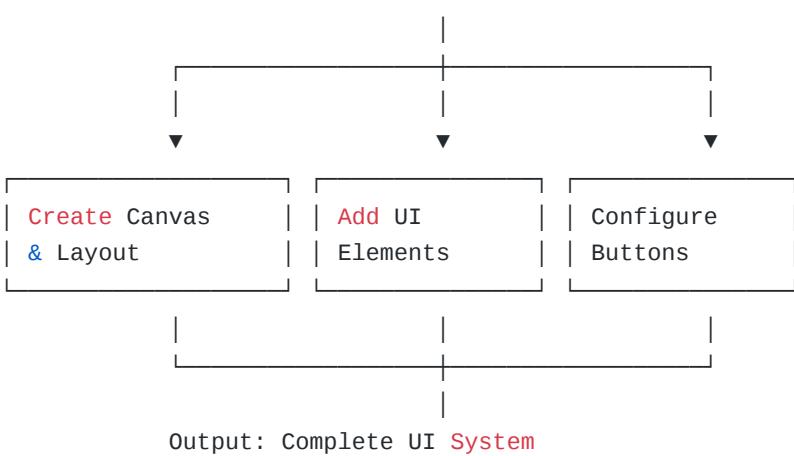
STEP 3: SCENES

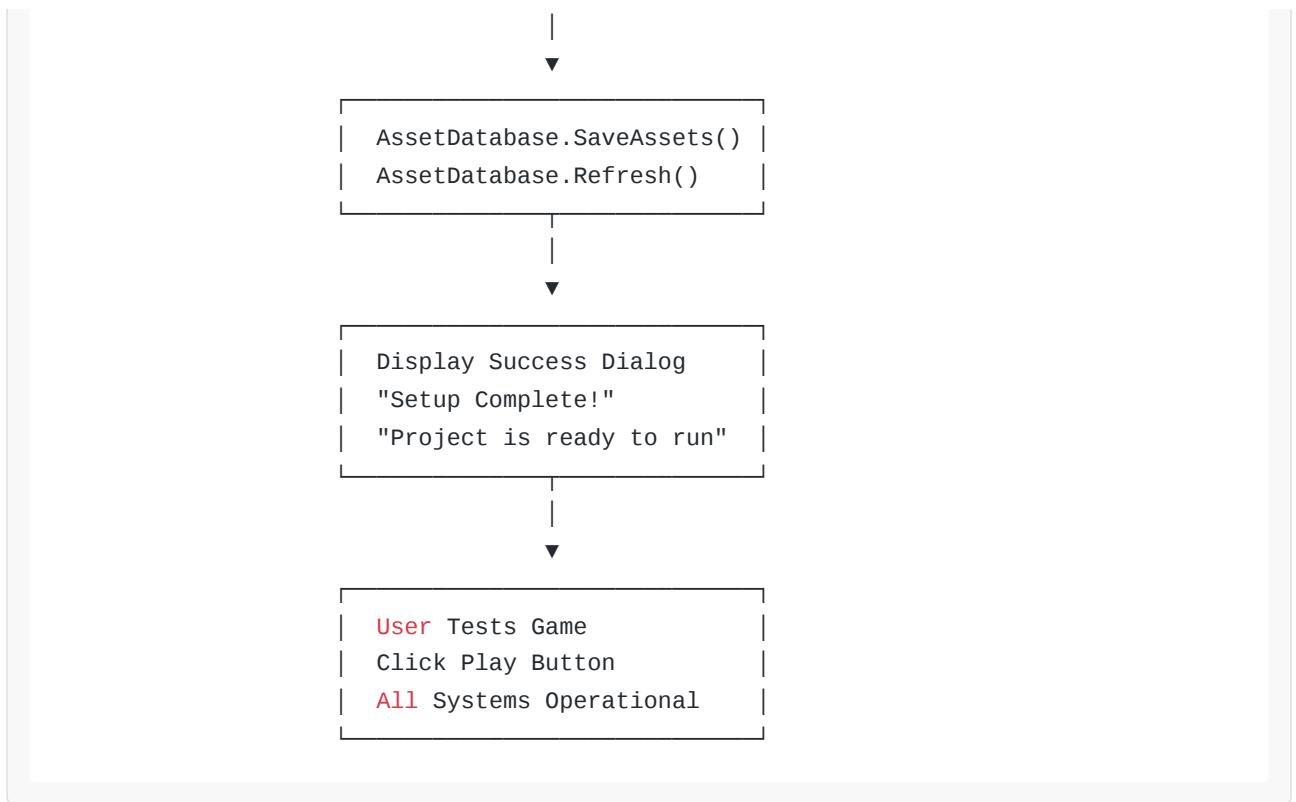
SceneSetup.cs



STEP 4: UI ELEMENTS

UISetup.cs





DETAILED MODULE FLOW

MaterialSetup.cs Flow:

```

CreateAllMaterials() | ─→ CreateMaterial("PlayerMaterial", Blue) ─→
CreateMaterial("CrystalMaterial", Cyan) ─→ CreateMaterial("GroundMaterial", Gray) ─→
CreateMaterial("WallMaterial", DarkGray) ─→ CreateMaterial("CheckpointMaterial", Green)
─→ CreateMaterial("EnemyMaterial", Red) ─→ CreateMaterial("BarrierMaterial", Yellow,
Transparent=true) ─→ CreateMaterial("PlatformMaterial", Brown) ─→
CreateMaterial("HazardMaterial", DarkRed) └→ CreateMaterial("ExitPortalMaterial", Purple)
  
```

PrefabSetup.cs Flow:

```

CreateAllPrefabs() | ─→ CreatePlayerPrefab() | ─→ Create Capsule body | ─→ Add
Camera child | ─→ Add CharacterController | ─→ Attach PlayerController script | ─→
Attach GravityController script | ─→ Attach PlayerEnergy script | └→ Save as
Player.prefab | ─→ CreateCrystalPrefab() | ─→ Create rotating cube | ─→ Add trigger
collider | ─→ Attach CrystalPickup script | └→ Save as Crystal.prefab | ─→
  
```

```
CreateCheckpointPrefab() |—> CreateEnemyPrefab() |—> CreateBarrierPrefab() |—>  
CreatePlatformPrefab() |—> CreatePressurePlatePrefab() |—> CreateHazardZonePrefab()  
|—> CreateExitPortalPrefab()
```

SceneSetup.cs Flow:

```
SetupAllScenes() | |—> SetupMainMenuScene() | |—> Create GameManager | |—>  
Create AudioManager | |—> Create MainMenuCanvas | |—> SetupLevel1Scene() | |—>  
Create ground and walls | |—> Instantiate Player at start position | |—> Place 3 crystals |  
|—> Add checkpoint | |—> Create tutorial platforms | |—> Place exit portal | |—>  
Create HUD Canvas | |—> SetupLevel2Scene() [Moving Platforms] |—> SetupLevel3Scene()  
[Hazards] |—> SetupLevel4Scene() [Mechanisms] |—> SetupLevel5Scene() [Final Challenge]
```

UISetup.cs Flow:

```
CreateAllUI() | |—> CreateMainMenuUI() | |—> Create title text | |—> Create subtitle |  
|—> Create Play button | |—> Create Options button | |—> Create Quit button | |—>  
Create language selector (EN/CN/JP/KR) | |—> CreateGameHUD() | |—> Create energy bar  
(background + fill + text) | |—> Create crystal counter | |—> Create score display | |—>  
Create gravity indicator | |—> CreatePauseMenuUI()
```

```
|—> Create overlay background  
|—> Create menu panel  
|—> Create Resume button  
|—> Create Restart button  
|—> Create Main Menu button  
|—> Create Quit button  
|—> Save as PauseMenu.prefab
```

DATA FLOW DIAGRAM

```
[User Input]
```



[ProjectSetupTool]



[MaterialSetup] [Asset Database]



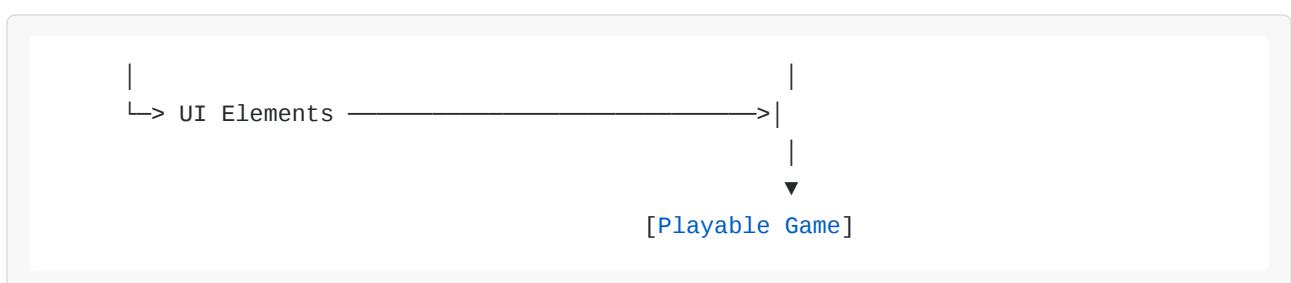
[PrefabSetup] [Project Window]



[SceneSetup] [Scene View]

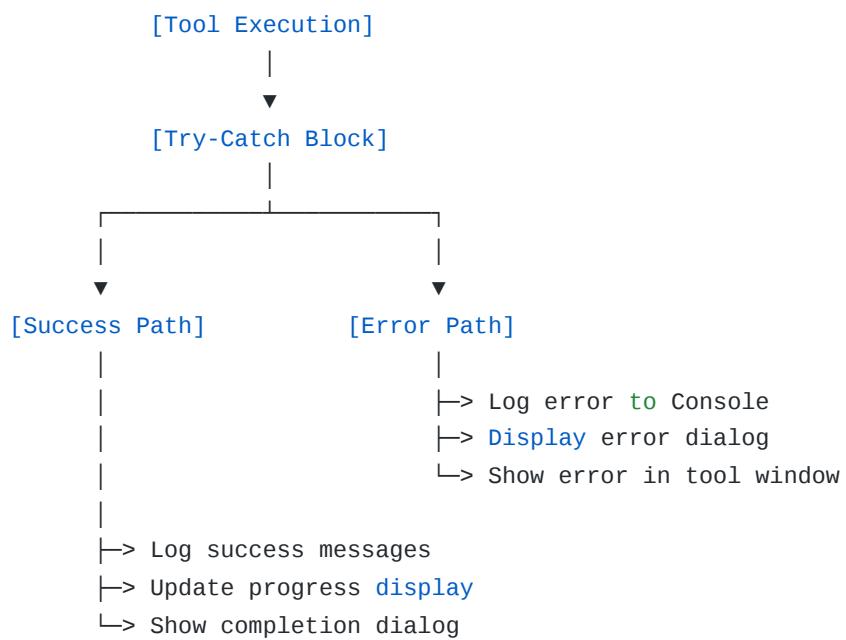


[UISetup] [Game View]



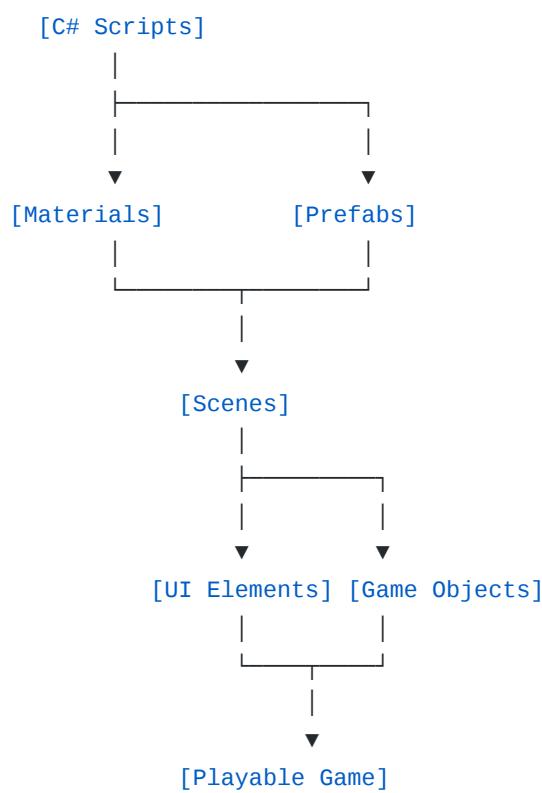
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ERROR HANDLING FLOW



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ASSET DEPENDENCY GRAPH



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END OF WORKFLOW DIAGRAM
