Sprint 3 Planning Meeting 02/22 Summary

Deadlines (Underlined = TBD, only a soft deadline)

- 02/22 @ 09:15 PM Team planning meeting for Sprint 3
- 02/22 @ 11:59 PM Plans for Sprint 3 layed out and posted in GitHub and ZenHub
- 02/24 @ Throughout Day Quick Scrum Meetings (All times are/were tentative)
 - o @ 01:00 PM Alek, Ben, Catherine, Eric
 - o @ 04:30 PM Alek, Ben, Eric, Tommy
 - o @ 09:00 PM Alek, Catherine, Eric, Ruidong
- 02/26 @ 11:59 PM Have code updated and templated/layed out
- 02/28 @ 10:59 AM Complete Sprint 3 Code Review 1
- 02/28 @ 09:30 PM Team code review meeting
- 03/02 @ 01:50 PM Have code in a finished state
- 03/07 @ 02:45 PM Latest date to have code reviewed in class by Kirby
 - After Kirby reviews work, set up an in person code session
 - Decide on date and time after selecting date for Kirby Review
- 03/09 @ 11:59 PM Finish code refactoring
- 03/10 @ 03:59 PM Complete Sprint 3 Code Review 2
- 03/10 @ 04:00 PM Team code review meeting and code connecting/finalization
 - o Caldwell 177
- Have in person meetings/work done before March 11th

Sprint 3 Focuses

Required

- Collisions
- Crouching
- Jumping
- Shell Object
- Background Objects
- 1-UP Mushroom Object
- Fix Fire Mario to be the only one who can throw Fireballs
- Level 1 and Developer Test Level Files
 - Developer Test Level should present all objects useable/available in the game
- Code to load level files
 - Ask Kirby for more info/insight
- New Commands

- LMB for previous level
- RMB for next level
- W for Jump
- A for Move Left
- o S for Crouch
- D for Move Right
- 1 for Use Red Mushroom
- 2 for Use Fireflower
- o 3 for Star
- 4 for 1-UP Mushroom
- StateMachine objects to handle objects' states
 - Koopa
 - Goomba
 - Mario
 - o Shell
 - o Block
 - o Pipe
 - Flag

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Extra Content

- Underworld Level/Room
- Flag animation
- Star Mario rainbow animation
- Player HUD
 - o Score
 - Coins collected
 - World/Level Tracker
 - o Time
- Interactable Features
 - Break bricks
 - Use coin block
 - Use question mark block
 - Collectable power ups
 - Red Mushroom, 1-UP Mushroom, Fireflower, Star
 - Flag
 - o Pipe
- "Realistic Physics"
- Sounds
- Smooth camera transition
- Gamepad Controller

Sprint 3 Classes/Interfaces Plans

- Interfaces
 - Update
 - IYMoveState Adding crouching
 - o Add
 - IStateMachine
 - ICollisionDetector
 - ICollisionHandler
 - ILevelLoader Can this actually be handled in the GameState class?
 - Ask Kirby for insight
 - Remove
 - ICollideable A different interface will be calling functions in objects, the objects themselves shouldn't have to know if they're collideable
- Classes
 - o Update
 - YMoveState Classes Adding crouching, Jumping may need updates
 - Shell Already had the object, just need to update it to function
 - BackgroundObject Already had object, need to update for function
 - Command Objects Need to function in the way our keys will have to
 - Item Needs to handle 1-UP Mushroom
 - GameObjectManager Needs to be modified to initialize based on level layout rather than hard coded in
 - SpriteFactory Needs to handle a 1-UP Mushroom
 - All Objects w/ States Need to use StateMachine calls rather than states' calls, update functions will require the most changes
 - Mario Health State Fix fireballs
 - Add
 - GoombaStateMachine
 - KoopaStateMachine May combine with GoombaStateMachine if possible/makes sense
 - MarioStateMachine
 - ShellStateMachine
 - BlockStateMachine
 - PipeStateMachine
 - FlagStateMachine
 - LevelLoader <u>The GameState may be able to handle the level loading</u> instead?
 - Ask Kirby for Insight
 - CollisionDetector
 - Passes the info the Handler that it gets from detection
 - CollisionHandler
 - Can pass on info for the objects that are colliding
 - Remove

■ N/A

- Other Files
 - o Level 1 World 1 Game Data
 - Developer Test World/Level Data
 - Choosing XML files

Team Members and Their Assigned Tasks

Member Name	Alek	Ben	Catherine
Task(s) Assigned/Chosen	 IStateMachine StateMachines YMoveStates All Objects' State Handling IYMoveState 	 ICollisionHandler CollisionHandler Shell BackgroundObject Item MarioHealthState 	ICollisionDetectorCollisionDetectorCommands

Member Name	Eric	Ruidong Zhang	Tommy
Task(s) Assigned/Chosen	 Shell BackgroundObject Item MarioHealthState Help on Collisions 	- Shell - BackgroundObject - Item - MarioHealthState	 Level Loading Code Level Files GameObjectManage SpriteFactory ILevelLoader (If needed)