.---Screen Manager ■ Attributes - enum state - GameManager gameManager - HighscoreDisplay highscoreDisplay - MenuManager menuManager - UserCMD userCMD ■ Operations + int Main(int argc, char** argv) - callback Keyboard(int key, int x, int y) - callback Mouse(int x, int y) -void ChangeState() ♠ MenuManager HighscoreDisplay □ Attributes ■ Attributes ■ Attributes
■ + glm::vec2 mousePositi... - Button buttons[] - GraphicInterface* graphicInterface + int key - GraphicInterface* graphicInterface - std::vector < unsigned int> highscoreList ■ Operations - void textFont ■ Operations + int Update(UserCMD userCMD) + MenuManager(GraphicInterface* graphicInterface) + HighscoreDisplay(GraphicInterface* graphicInterface) ⋄ GameManager + void Draw() + int Update(UserCMD userCMD) + void Draw() □ Attributes - void ReadHighscore() - AI aI - Audio Manager audio Manager - GraphicInterface* graphicInterface -int logicalMap[][] - MapLoader mapLoader - Pacman pacman -std::vector < Candy > candies -std::vector<int> sounds ■ Operations + GameManager(GraphicInterface *graphicInterface) + int Update(UserCMD userCMD) ■ Attributes + void Draw() Operations + void Initialize() -void CheckCollision(glm::vec3 pacPos, std::vector<glm::vec3> ghostPos) -void CreateCandies() - void FixMap() - void LoadMap(constchar* mapName) Look at next class diagram 0..* ♠ ⋄ ΑI MapLoader AudioManager Candy Pacman Attributes □ Attributes □ Attributes Attributes Attributes - ALuint audio Buffer[NUM_OF_SOUNDS] - Ghost ghosts[4] -float devourTime - enum type - glm::vec3* pacmanlPosition - glm::vec3 position -intsoundCounter - float hunger + int[][] LoadMap(const char* mapName) - int logicalMap[][] -float maxDevourTime ■ Operations Operations + MapLoader() -float speed ■ Operations + Candy(glm::vec3 position) + AudioManager() - glm::vec3 direction + glm::vec3 GetPosition() + int CreateSound(const char*fileName) + AI(int logical Map[][], glm::vec3* pacman Position) - glm::vec3 position + GhostStruct[4] GetGhostInformation() + int GetType() + void PlaySound(intsound, glm::vec3 soundPos) - glm::vec3 up + void Update(glm::vec3 headPos, glm::vec3 headDir) + void Update() - unsigned int life - void UpdateGhostPath(glm::vec3*goalPosition) □ Operations + float GetHunger() +glm::vec3 GetDirection() + glm::vec3 GetPosition() Ghost + Pacman(glm::vec3 startPosition) + PacStruct GetPacStruct() + void StartDevouring() ■ Attributes + void Update(UserCMD userCMD) - enum state -float speed - alm::vec3 direction - glm::vec3 position ♠ <Struct> GhostStruct <struct> PacStruct <struct> CameraStruct -std::vector<point>path ■ Operations ☐ Attributes ■ Attributes ■ Attributes + Ghost(glm::vec3 position) + glm::vec3 direction + float hunger + glm::vec3 position +glm::vec3 GetDirection()

+ glm::vec3 position + unsigned int life + glm::vec3 target + glm::vec3 GetPosition() + glm::vec3 up ■ Operations ■ Operations + void SetState(intstateNumber) ■ Operations + void Update()