Ipsilon Networks Class Diagram **JFrame** Package::javax.swing DataBase MainFunction +userData: MySQL table +applicationData: MySQL table +getData() Client GUI +setData() Package::Client Responsibilities Responsibilities >Stores all data relating to the client -IP : String > Allows for setting and getting and has data that admin can query -Port: int data from the database +main() +Client() +LoginGUI() +RegisterGUI() +mainGUI() +Connect(String ip, int port) +Disconnect() +forgotPassword() -checkIP() Responsibilities CommandProcessor >Main GUI class for the client interface that allows -commands: Hashmap for connecting and disconnecting to the server, registering, and password help +processCommand(String cmd, Network network, ClientHandler ch) LoginFunction Responsibilities > Process all commands sent to the server -Login(String username, String password) -Logout() Responsibilities > Allows for user to login and logout of account Thread Package::java.lang Credentials -ID: String Network ClientHandler -Username() Package::Common «active» -Password() -socket: Socket -recoverPassword(String username) -Go: boolean -datain: BufferedReader -Name: String Responsibilities -dataout: DataOutputStream -ID: int > Allows for recovering password as +NetworkAccess(String IP, int Port) -Server: Server well as handles the credentials +NetworkAccess(Socket socket) +ClientHandler(int id, Socket socket. Server server) +readString(): String +toString(): String +sendString(String msg, boolean acknowledge): String +getName(): String +close() +run() Responsibilities Responsibilities >Acts as the connection between the Client and >Handles peer to peer comunication between the server to provide peer to peer connection **EmailSender** the client and the server -ID: String -Username() -sendEmail(String email, String username) Responsibilities > Allows for sending email verification to the user via the email from the user's data Admin GUI Package::Admin Server -IP: String «active» Registration -Port: int -PORT: int = 8000 -running: boolean +main() +newRegistration() -nextID: int +Admin() +checkUsername() -clientConnections: Vector<Client Handler> +queryUser() +checkEmail() +queryLoggedNum() +Server() Responsibilities +queryLogged() +getConnections(): int > Handles registering a new user +queryLocked() +peerConnection(Socket socket) as well as checking if inputs are +queryConnect() +removeID(int id) valid Responsibilities Responsibilities >Main GUI class for the admin interface that allows >Provides access to server capabilities for querying of certain data points ServerSocket **JFrame** Package::java.net Package::javax.swing