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classDiagram
    class Map {
        +header: Header
        +content: String
        +getHeader(): String
        +allowCol(): boolean
    }
    class Header {
        +name: String
        +mapname: String
        +getName(): String
        +getMapname(): String
        +equals(): boolean
    }
    class User {
        +username: String
        +salt: String
        +hashedPassword: String
        +getUsername(): String
        +getSalt(): String
        +getHashedPassword(): String
    }
    class UserStatus {
        +username: String
        +bombsKilled: Integer
        +levelStar: List<Integer>
        +maxLevel: Integer
        +enemyKilled: Integer
        +treasureCollected: Integer
        +getEnemyKilled(): Integer
        +getLevelStar(): List<Integer>
        +getBombsKilled(): Integer
        +getMaxLevel(): Integer
        +getTreasureCollected(): Integer
        +getUsername(): String
    }
    class MapController {
        +NO_LOGIN: String
        +NO_VAR: String
        +TUP_MAP: String
        +MAP_SUCC: String
        +MAP_FAIL: String
        +getMapMass(): Response -> Route
        +getOne(): Response -> Route
        +addNewMap(): Response -> Route
    }
    class LoginController {
        +LOGIN_FAILED: String
        +LOGIN_SUCC: String
        +ALREADY_LOGGED_IN: String
        +LOGOUT_NO_SUCH_USER: String
        +LOGOUT_NOT_LOGGED_IN: String
        +LOGOUT_SUCC: String
        +REGISTER_FAIL: String
        +REGISTER_SUCC: String
        +handleLoginPost(): Response -> Route
        +handleLoginPost(): Response -> Route
        +handleRegisterPost(): Response -> Route
        +userIsLoggedIn(): boolean
    }
    class UserController {
        +updateStatus(): Response -> Route
        +authenticate(): boolean
        +hasUser(): boolean
        +hasUser(): boolean
        +addUser(): void
    }
    class JsonUtil {
        +onlyUsername: ExclusionStrategy()
        +headerToJson(): String
        +headerToJson(): ResponseTransformer
        +mapToJson(): String
        +mapToJson(): ResponseTransformer
    }
    class MapReader {
        +PATH: String
        +files: ArrayList<File>
        +method(): type
        +getHeader(): List<Header>
        +parseHeader(): Header
        +getMap(): Map
        +parseMap(): Map
        +addMap(): boolean
        +header(): Map
        +checkMap(): boolean
    }
    class RequestUtil {
        +getSessionCurrentUser(): String
        +getUploadMap(): String
        +getQueryPassword(): String
        +getWantedMap(): String
        +getQueryUsername(): String
        +getUpdateName(): String
        +getUploadMapName(): String
        +getEnemyKilled(): Integer
        +getTreasureCollected(): Integer
        +getMaxLevel(): Integer
        +getBombsKilled(): Integer
        +getLevelStar(): List<Integer>
    }
    class addNewMap {
        +mapName: String
        +mapContent: String
    }
    class UserContent {
        +username: String
        +password: String
        +getPassword(): String
        +userContent(): String
        +getUsername(): String
    }
    class Path {
    }
    class Web {
        +Path: String
        +Web: String
        +LOGIN: String
        +LOGOUT: String
        +REGISTER: String
        +REQUESTALL: String
        +REQUESTONE: String
        +UPLOAD: String
        +UPDATE: String
    }
    class UserReader {
        +PATH1: String
        +PATH2: String
        +json: Object
        +UpdateUser(): void
        +hasUser(): boolean
        +hasUser(): boolean
        +addUser(): void
    }
    Map "1" -- "*" Header
    Header "1" -- "*" Map
    User "1" -- "*" UserStatus
    MapController "1" -- "*" Map
    MapController "1" -- "*" Header
    LoginController "1" -- "*" User
    LoginController "1" -- "*" UserStatus
    UserController "1" -- "*" User
    UserController "1" -- "*" UserStatus
    JsonUtil "1" -- "*" Map
    JsonUtil "1" -- "*" Header
    MapReader "1" -- "*" Map
    MapReader "1" -- "*" Header
    RequestUtil "1" -- "*" Map
    RequestUtil "1" -- "*" Header
    addNewMap "1" -- "*" Map
    addNewMap "1" -- "*" Header
    UserContent "1" -- "*" User
    UserContent "1" -- "*" UserStatus
    Path "1" -- "*" Web
    Path "1" -- "*" UserReader
    Web "1" -- "*" User
    Web "1" -- "*" UserStatus
    UserReader "1" -- "*" User
    UserReader "1" -- "*" UserStatus
  
```











