WhoKnows – Go + Gorilla Projektplan

EPIC 1 — Go Project Foundation

Task: Init Go module & struktur

- go mod init whoknows
- Opret mappestruktur: /cmd/server og /internal/...
- Placér main.go i /cmd/server
- Følg idiomatisk Go projektstruktur

Task: Dependencies

- Install Gorilla Mux router
- Install database library (sqlx eller gorm)
- Install JWT library
- Install godotenv

EPIC 2 — Database Layer

Task: Database connection

- Opsæt PostgreSQL forbindelse
- Connection pool
- Opret internal/db/db.go

Task: User model

- Definér models/user.go
- Lav SQL schema
- Opret migration script

EPIC 3 — Authentication System

Task: Password hashing

- Implementér bcrypt helper

Task: JWT manager

- Generér token
- Validér token
- Middleware til beskyttede routes

Task: Register handler

- Parse form data
- Validér passwords matcher
- Hash password
- Gem bruger i database
- Returnér JSON AuthResponse

Task: Login handler

- Verificér password
- Udsted JWT
- Returnér JSON

Task: Auth middleware

- Beskyt routes med JWT middleware

EPIC 4 — Weather Feature

Task: Weather service

- Opret services/weather.go
- Kald ekstern weather API
- Map til StandardResponse

Task: Weather handler

- JSON endpoint
- HTML page endpoint

EPIC 5 — Search Feature

Task: Search service

- Håndtér q parameter

- Håndtér language parameter

Task: Search handler

- Parse query params
- Returnér korrekt SearchResponse

EPIC 6 — HTML Pages

Task: Template system

- Brug html/template
- Lav base layout
- Navigation mellem sider

Pages

- Root page
- Register page (POST til API)
- Login page (gem JWT)
- Weather page (fetch fra API)

EPIC 7 — Routing Layer

- Central routes/routes.go
- Opdel public og protected routes
- Middleware chain

EPIC 8 — Testing

- Opsæt Go testing framework
- Test database
- Auth tests
- Search tests
- Weather tests

EPIC 9 — Error Handling & Logging

- Central error writer
- Logging middleware
- Standard JSON error format

EPIC 10 — Deployment

- Dockerfile
- docker-compose
- Environment config
- Production build

EPIC 11 — Code Quality

- golangci-lint
- Makefile
- README dokumentation