Project Title: Diagnosis of Diabetic Retinopathy System  
Team Member: Peijin Chen  
Time Period: April 7 – April 20, 2025  
Working Hours: 30 hours

**1. Literature Review**

I reviewed two Kaggle notebooks related to DR classification:

* APTOS DR EDA & Starter: Covered data distribution, image preprocessing, and data loading structure using PyTorch.
* CNN for DR Diagnosis (PyTorch): Demonstrated a complete CNN-based workflow with QWK as the evaluation metric.

These readings provided insight into how data preparation and model output formats align with the planned system’s UI integration.

**2. Reference System UI Survey**

Analyzed existing commercial platforms to inform UI design:

* iCare RETCAD: Focused on lesion visualization and diagnostic clarity.
* RetinaLyze: Emphasized upload efficiency and integration with clinical systems.
* Google Health ARDA: Highlighted the value of minimal and mobile-friendly interfaces.

These references helped guide interface layout and functional planning.

**3. Front-End Design Progress**

Finalized initial design goals and technical structure:

* User Roles: Doctor and patient views with separate dashboards.
* Core Modules: Login, image upload, diagnosis result display, history list, report generation.
* Technology Stack: Vue 3 + Vite + Element Plus, with Pinia for state management.
* Design Principles: Responsive layout, clean UI, planned integration of image heatmap and PDF report functions.

**4. Next Steps**

* Build initial Vue components and route structure.
* Implement upload and result preview modules.
* Define back-end interfaces for diagnosis results.
* Integrate model output with front-end logic.