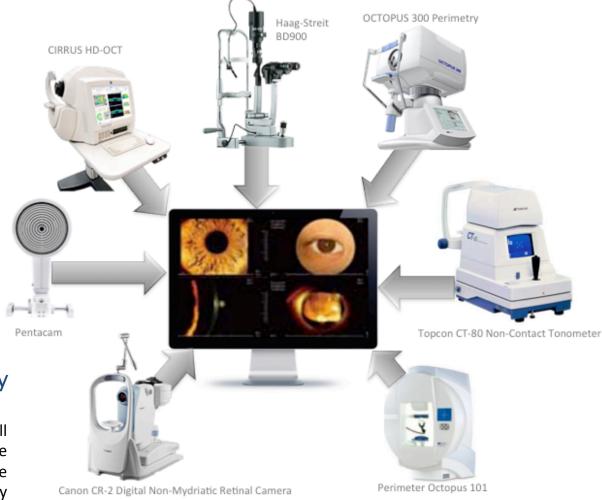


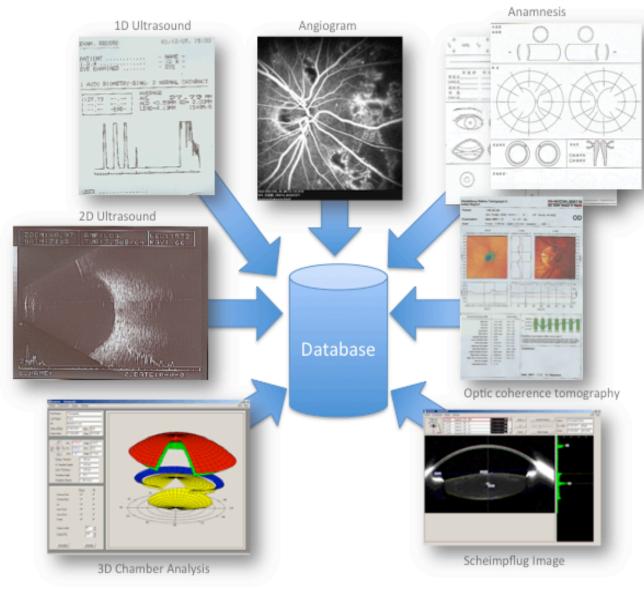


At Ophthalmology Department, there are full of different equipment and device which are used for diagnosis and treatment of eye disorders. They are complex and extremely different from each other.



This project is focusing on redesigning the process of examination and integrating the results into database system.

Action:

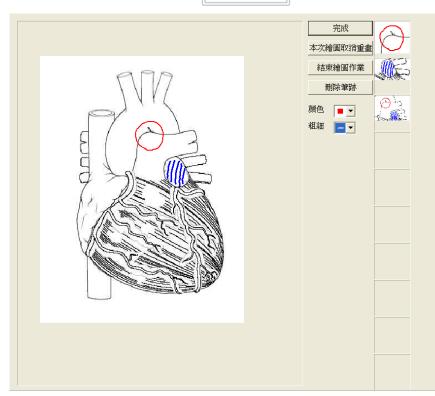


I ran a series of interviews with the staff and physicians at Department of Ophthalmology to understand the treatment process, the concern of physicians have regarding the coming new system, and collect the information of all equipment and device for finding the way to export the data into new database system.

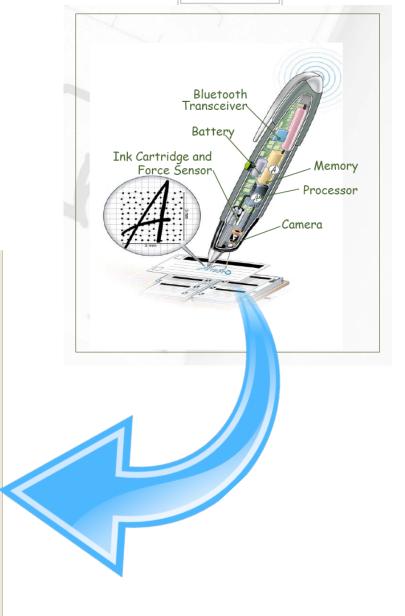
- On-site observation for the patient's treatment ,reaction and complaint. Explore the environment.
- 3. Based on the research and observation, we found out:
 - Physician like to draw diagnosis on paper.
 - Will be helpful if all the data could be stored and display at the same time on the screen.
 - Diagnosis is displayed on graphic or diagram mostly.

4. Explored and researched the solution in order to keep physician's custom. After all. We decided to use digital pen with digital paper to replace the paper without changing physician's custom.

Example

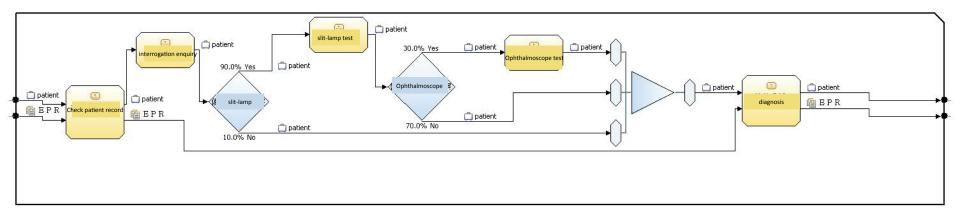


Digital Pen

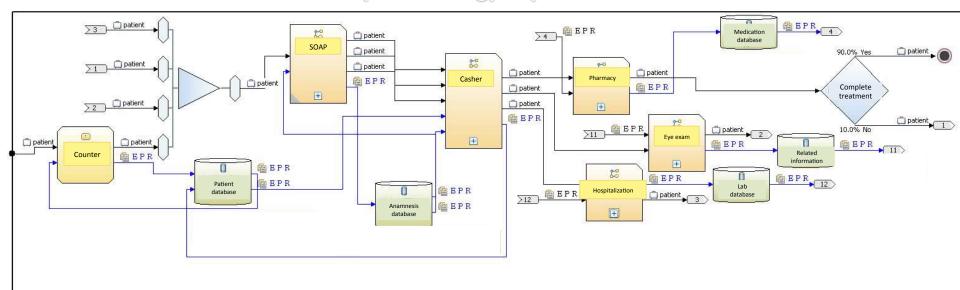


5. Drew the flow chart to sort the process.

Diagnosis Process

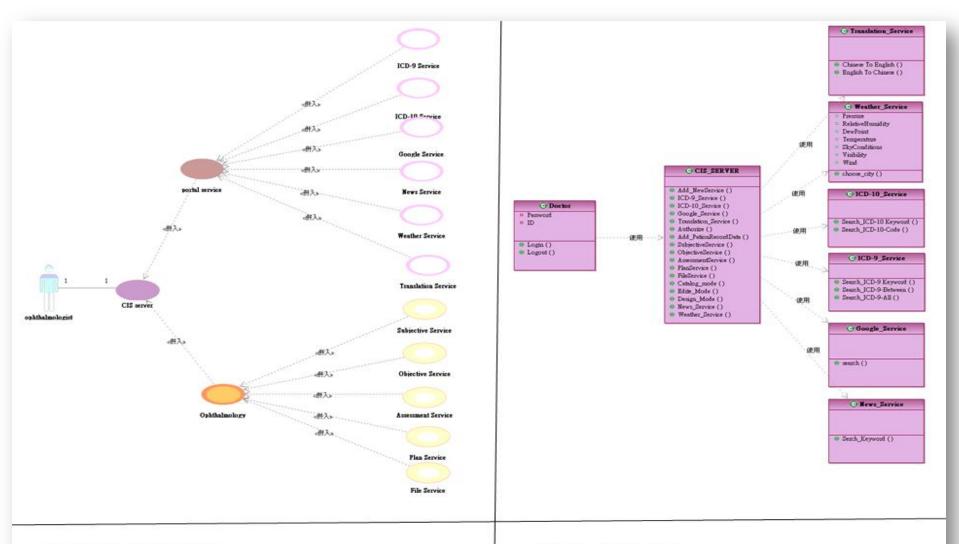


Ophthalmology Department Process

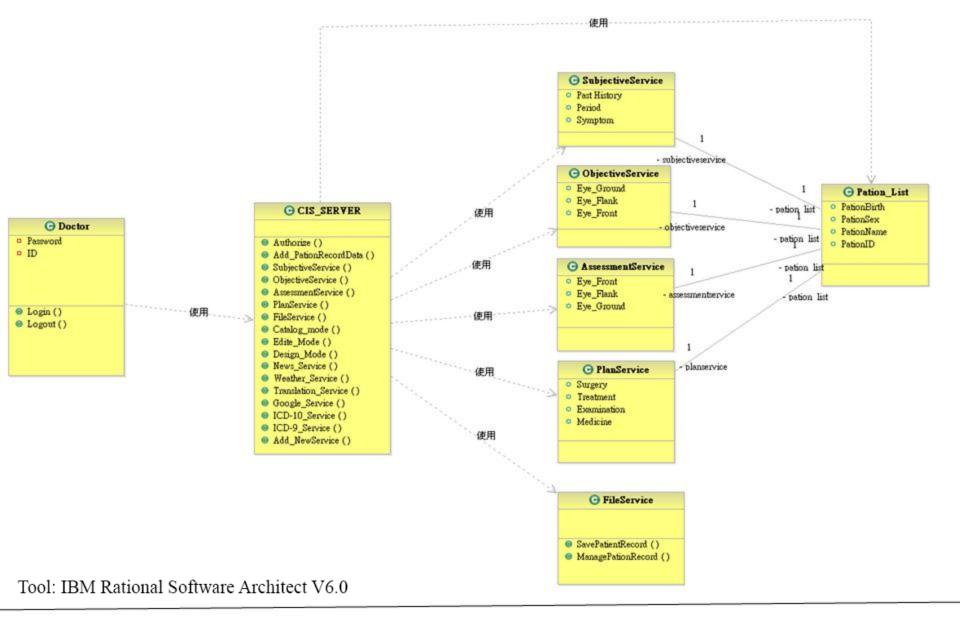


6. Installed and practiced the new equipment. Compared the flow chart, before and after.

We decided to focused on simplifying the process of basic eye examination and diagnosis process.



Use Case Diagram – Ophthalmology Clinical Information System Class Diagram—
Portal Clinical Information System

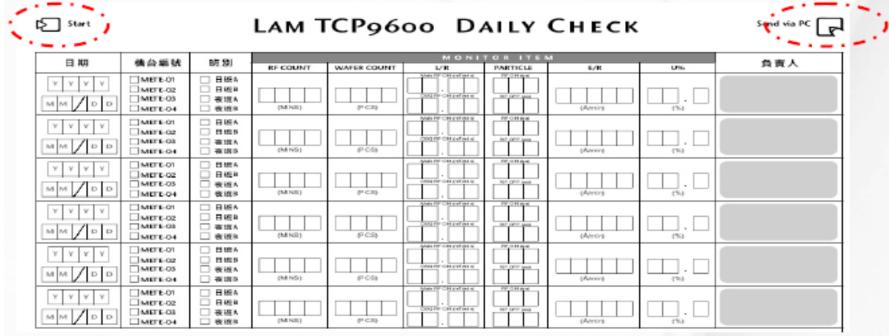


Class Diagram-- Ophthalmology Clinical Information System

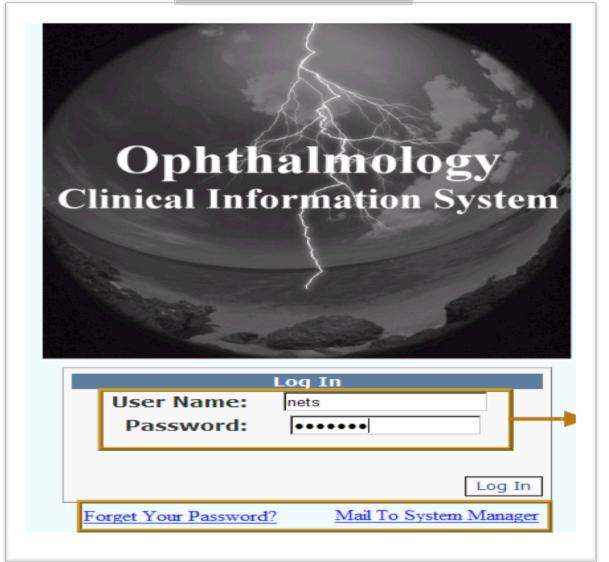
Outcome:

Sent the result of process analysis, new equipment test result, class diagrams for each of the steps to the development team for coding up prototype. Took us few iterations to streamline it.

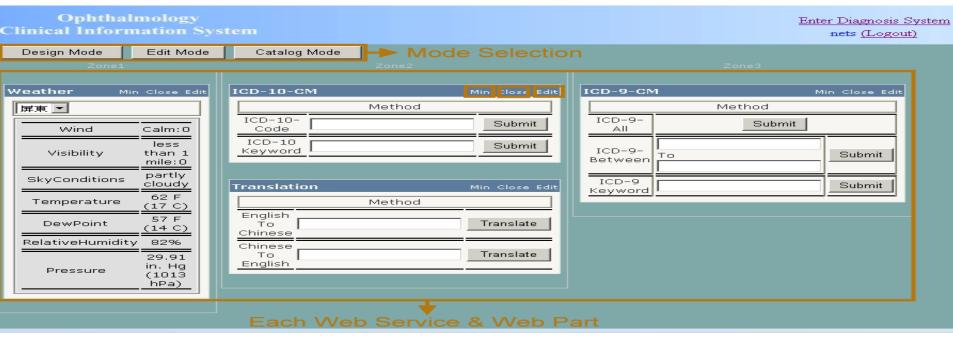




Prototype- login page



System Personal Portal



System Assessment Step

