

Pengembangan Sistem Informasi dan Aplikasi Mobile (Progressive Web Apps) Klinik Gigi DN = Development of an Information System and Mobile Application (Progressive Web Apps) at DN Dental Clinic

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=9999920520270&lokasi=lokal>

Abstrak

Klinik gigi DN merupakan salah satu klinik gigi yang saat ini masih menggunakan sistem pengoperasian secara offline, banyak penggunaan kertas dalam pencatatan, appointment dilakukan secara manual, dan data yang tidak terintegrasi. Hal ini dapat menyebabkan terhambatnya pelayanan pasien sehingga timbulnya persepsi buruk dari pasien akan pelayanan yang dilakukan klinik gigi DN. Berdasarkan masalah tersebut, tim pengembang mengembangkan sebuah sistem informasi yang dapat menjadi solusi dari permasalahan tersebut. Pada pengembangan, dikembangkan dua sistem terpisah (internal web apps dan aplikasi PWA [Progressive Web Apps]) yang saling terintegrasi satu sama lain. Internal web apps akan digunakan oleh pihak internal klinik gigi DN dalam menjalankan proses bisnisnya, sementara aplikasi PWA (Progressive Web Apps) digunakan oleh pasien klinik gigi DN. Sistem ini dikembangkan menggunakan salah satu metode pengembangan perangkat lunak agile, yaitu Scrum. Kerangka kerja Scrum yang digunakan terdiri dari tiga fase, yaitu pre-game, game (development), dan post-game. Pada fase pre-game, dilakukan requirement gathering, perencanaan, dan architecture/high level design. Pada fase game, dijalankannya sprint untuk pengerjaan proyek. Pada fase post-game dilakukannya testing terhadap sistem yang telah dikembangkan. Pada pengembangan sistem di klinik gigi DN ini, dihasilkan dua sistem (Internal web apps untuk internal klinik dan aplikasi PWA [Progressive Web Apps] bagi pengguna eksternal klinik) yang dibangun dengan framework Spring Boot dan React JS. Dengan dikembangkan sistem informasi dan aplikasi tersebut, diharapkan pihak klinik gigi DN dapat lebih efektif dan efisien dalam melayani pasien.

.....DN dental clinic that currently uses an offline operating procedure, uses a lot of paper in recording, appointments are done manually, and the data is not integrated. This can cause delays in serving patients so that there is a bad perception from patients about the services provided by the DN dental clinic. Based on these problems, the development team developed an information system that could be a solution to these problems. During the development, two separate system (internal web apps and PWA [Progressive Web Apps] application) were developed which were integrated with each other. The internal web apps will be used by DN dental clinic internal parties in carrying out their business processes, while the PWA (Progressive Web Apps) application is used by DN dental clinic patients. The system is developed using one of the agile software development methods, namely Scrum. The Scrum framework used consists of three phases, namely, pre-game, game (development), and post-game. In the pre-game phase, requirements gathering, planning, and architecture/high level design are carried out. In the game phase,

sprints are executed. In the post-game phase, testing of the system that has been developed is carried out. In the development of the DN dental clinic information system, two systems (internal web apps for internal clinic and PWA [Progressive Web Apps] application deliver to patient) were produced which were built with Spring Boot and React JS frameworks. By developing the system information and applications, it is hoped that the DN dental clinic can be more effective and efficient in serving patients.