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Cairo University

Faculty of Computers and Information

Department of Computer Science

Care Point

Supervised by

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Implemented by

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Academic Year 2017-2018

Midyear Documentation of Graduation Project

Abstract:

One of the main problems in the medical system in Egypt is the lack of coordination between medical organizations, like hospitals, clinics, pharmacies, … etc. That is, the patient looks for one place to get one medical service and that’s it. This problem has led to a shortage in the medical service ***as a whole***.

“Care Point” provides a set of facilities that aim to mitigate such shortage and benefit from the integration of individual medical services through one powerful system. The project focuses mainly on care-related services, and the following are the main ones:

* The doctor can view the whole medical history of his patient. This breaks the boundary between medical organizations and gives the doctor all information he needs to correctly diagnose a patient.
* Any citizen can search for any medical service (e.g. ICU –

Work Plan:

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| --- | --- | --- | --- |
| **Task** | **Task Title** | **Description** | **Task Status** |
| 1 | Idea selection | Prioritize candidate ideas and meet our supervisor to discuss them and choose one | Completed |
| 2 | Scope specification | Determine features/ services that will be included in the project scope and prioritize them | Completed |
| 3 | Learning plan | Discover technologies that can help us, decide which technologies we will use and put a plan to learn them in parallel with other tasks | Completed |
| 4 | Similar work analysis | Discover previous projects with similar work, determine the pros and cons for each one and how we can avoid those cons in our project. Then, document the results | Completed |
| 5 | SWOT & PEST analysis | * Determine project strengths, weaknesses, opportunities and threats through SWOT analysis * Determine political, economic, social and technological factors that can affect the project through PEST analysis | Completed |
| **First milestone** | | | |
| 6 | Requirement elicitation | * Determine needed information and prepare questions we need to ask * Schedule meetings with our stakeholders (mainly doctors and pharmacists) to gather needed information * Put simple and opinion-based questions in a survey and publish it in online communities for pharmacists and doctors | Completed |
| 7 | FURPS+ documentation | Formally document the functional and non-functional requirements | Completed |
| **Second milestone** | | | |
| 8 | System diagrams design | Divide system features into groups and ***incrementally*** make apreliminary design for use-case, class, and sequence diagrams | Completed |
| 9 | DB design | Design an ERD diagram and prepare DB schema | Completed |
| 10 | UI design | - Use mockups tool to design a blue print for the solution  - Design a logo | Completed |
| **Third milestone** | | | |
| 11 | Implementation plan | - Divide the whole system into releases  - Put a deadline for each release  - Assign roles to team members (front end, backend, testing, …etc.) | Completed |
| 12 | Midyear documentation | Prepare the midyear GP document | Completed |
| 13 | Design enhancements | Resolve design problems that are discovered later during implementation | In progress |
| 14 | Complete and test release 1 | Release 1 is concerned with:   * Registration and login * Medical history * Patient attachments (radiology, analysis, … etc.) * Patient prescriptions | In progress |
| **Fourth milestone** | | | |
| 15 | Complete and test release 2 | Release 2 is concerned with:   * Profile creation for medical organizations * Enabling medical organizations to edit available services, care units and service work slots * Searching for medical services * Searching for user accounts * Suggesting medicine alternatives to the doctor while writing a prescription | Expected |
| **Fifth milestone** | | | |
| 16 | Complete and test release 3 | Release 3 is concerned with:   * Ability to add friend, parent or sibling user * Prognosis and warning from probable genetic diseases * Asking for rescue by sending SOS signals to nearby hospitals, relatives and friends | Expected |
| **Sixth milestone** | | | |
| 17 | Compete and test Release 4 | Release 4 is concerned with:   * Add pharmacy services (Selling medicines, extracting a receipt, managing inventory) * Searching for medicines and injections * Rating a medical service * Publishing advertisements for top rated services | Expected |
| 18 | Deployment | Look for a web host and deploy the final project | Expected |
| 19 | Documentation | Prepare final GP document | Expected |
| **Seventh milestone** | | | |