IdeationPhase

LITERATUE SURVEY

IBM-Project-55591-1669182539

TEAMID:PNT2022TMID25143

PROJECT TITLE: Personal Assistance for senior citizens who are Self- Reliant

TEAM MEMBERS:

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REVIEW-1:

TitleofthePaper:

Elderly Care: A Study on Community Care Services in Sleman,DIY,Indonesia

NameoftheAuthor:

Academic Editor: Jean-Francois

GrossetPublishedon07 May2020

ProblemDescription:

Elderlycareservicesareimportanttoprovideinresponsetotherapi d growth of the elderly population. In developing countrieslike Indonesia, the speed of growth of the elderly populationdoes not simultaneously occur, so the needs for care servicesvary. This study discusses the emergence of home care servicesin response to the increase in elderly population. By taking thecase of community home care services in Sleman, this studyfoundthepatternandprocessoftheemergenceoflocalinitiati ves in home care services. This study also revealed animportant factor affecting the implementation of communityhomecareservices, thatis, leadership.

REVIEW-2:

TitleofthePaper:

MultidisciplinaryapproachestoachievingefficientandtrustworthyeHealthmonitoringsystems

NameoftheAuthor:

AjmalSawand,SoufieneDjahel,ZonghuaZhang,FaridNaïtAbdesselam

Publishedon2014IEEE/CICInternationalConferenceonCommunicationsinChina(ICCC), 187-192, 2014

ProblemDescription:

The rapid technological convergence between Internet of Things(IoT), Wireless Body Area Networks (WBANs) and cloud computinghave contributed to the emergence of e-healthcare, significantlyimproving the quality of medical care. In particular, patient-centrichealthmonitoringplaysavitalroleine-healthcareservice,involvinga set of important operations ranging from medical data collectionandaggregation,datatransmissionandsegregation,todataanalytics.Thissurveypaperfirstlypresentsanarchitecturalframework to describe the entire monitoring life cycle and highlightthe essential service components. More detailed discussions arethendevotedtodatacollectionatpatientside,whichwe arguethatit serves as fundamental basis in achieving robust, efficient, andsecurehealthmonitoring.Finally,asetofdesignchallengesisparticularlyanalyzedfordevelopinghighqualityandsecurepatient-centricmonitoringschemes,alongwithsomepotentialsolutions.

REVIEW-3:

TitleofthePaper:

DevelopingtheMedicationReminderMobileApplication“Seeb”

NameoftheAuthor:

SakinehSaghaeiannejad-Isfahani,AsgharEhteshamiandAliSamimi

ProblemDescription:

Today,thestructureofcomprehensivehealthcareemphasizesself-care more than therapy. Medication therapy is a strong instrumentfortherapyreceivedthroughthehealthsetting,especiallyin medication area. Error in medication administration has produceddifferentproblemsandtheycostbillionsofdollarseveryyear. Regardingmobilephoneextensions,wedevelopedalocalmedication reminder mobile application called “Seeb” as a suitablesolutionfordecreasingmedicationerrorsforIranians.Thisappli cationwasdesignedfortheappropriatemedicationadministrationincl udingtimeanddosagesthrough:recordingpatient and medication data; scheduling patients’ medication; andreporting medication administration on progress. Nowadays, usingsmartphonesandmobileapplicationsareincreaseddramatically, sodeveloping mobile applications in health services (especially self-care)cancreatethedesiredeffectinthecommunity.Althoughtherearev ariousmedicationremindermobileapplications,anativemobileapplica tionisessentialthatisdevelopedonthebasisofthe

specialists' ideas in this field. In addition to remind the medicationadministration time and dose, "Seeb" reports the analysis of thepatientmedication administration,aswell as displaying suitablepictureofthemedicationanditsadministrationmethodwhenreminded of medication use. Existence of these functions in themedicationremindermobileapplicationpreventsmedicationerrorsbypatientsandincreasesmedicationadherence.Undoubtedly,"Seeb" can play an important role in patient health improvementwiththesuitablereminderofthemedicationadministrationbyuserfriendly interfaces, data processing, correct calculation of formulasand appropriate responds, the display of the medication picturesand descriptions. Therefore, we suggest that health care providersincreasepatients'awarenessandintroducethemmedication remindermobileapplicationstopromotetheseapplicationsutilization andtoimprovemedicationadherenceaswellasdecreasingmedication errors.

REVIEW-4:

TitleofthePaper:

Salubrity-Amedicinereminderapplicationusingandroid

NameoftheAuthor:

ShivaniSharma

Published2018Medicine,ComputerScience

ProblemDescription:

Nowadays, smartphones have reached every hand and everyhome.Asaresult,peopleareusingthebeneficialmobileapplicationstomaketheireverydaylifeeasier.Thispaperfocuses on the development of a mobile application to help toprovideaneffectivehealthcaresystem.Thisisanandroidbasedapplicationinwhichalarmisusedwhichmaybeclosedbytappingtheclosealarmbutton,undertheimageofthemedicinewhichistobetaken atthatparticulartime.Itmayevenhavethecontactnumbersofthedoctorsforanemergency.Thisapplication will be helping hand for the people who are busy intheirdaytodaylifeoroldagepeoplewhoforgetwhichmedicineistobetakenandwhen.Manysuchmedicineremindersystemshave been developed where a new hardware is required but inour work, we have made an attempt to develop a system whichis free of cost, time-saving and supports medication adherencewithoutany extra hardware.

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