



## SYSTEM DESIGN PROJECT: PROJECT PLAN

### Authors:

Stefani Genkova - *s1437453*  
Tizzy MacGregor - *s1508959*  
Glen Merry - *s1531807*  
Alexander Pietz - *s1529373*  
Jasper Snel - *s1452790*  
Philip Van Biljon - *s1545259*  
Boyan Yotov - *s1509922*

DispensED - Group 17

Last Update: January 22, 2018

# Contents

0.1 Purpose of this Document . . . . .	2
<b>1 Goals</b>	<b>3</b>
<b>2 Resource Allocation</b>	<b>3</b>
<b>3 Organisational Structure</b>	<b>3</b>

## 0.1 Purpose of this Document

This document is prepared as part of the project for the System Design Project course at the University of Edinburgh. This project plan will highlight the goals we have set as a team as well as how we will achieve them - Including a breakdown of our resources and overview of our organisational structure.

# 1 Goals

There is a large shortage of nursing staff across the UK. The NHS alone reported that nurses account for 38% of overall vacancies<sup>1</sup>. Care home staff, specifically, spend about 40-50% of their time with drug related activities. Administration errors occur 8.4% of the time [BAR<sup>+</sup>09], meaning if a patient receives medication three times a day, there is a 1 in 4 chance that an error occurs.

Dispensed is aiming to develop a solution to the problems created by manual drug administration by creating a robot to do the bulk of the work. Our product will move around care homes to different residents' homes. The residents can then scan their identification and the appropriate drugs and vitamins will be dispensed. The system will also have a wide range of administrative functions available to staff, such as setting alerts on low stock levels or non-admittance of drugs.

## 1.1 Technical Subgoals

# 2 Resource Allocation

# 3 Organisational Structure

The team structure follows loosely a Functional Matrix structure. Alexander was assigned as key contact and team mgr <..??>

There is a one hour fixed meeting slot with our mentor on Thursdays at noon - everyone is expected to attend these meetings. Additional meetings follow a drop-in approach and are conducted as needed. The main vector of communication is the team slack - we use Notion as platform for notes, drafts and project management. Specific tasks are allocated via trello-like boards in the To-Do section on notion. We decided to use Notion instead of Trello as it offers additional functionality. The way we manage both task allocation and progress tracking follows the scrumban management system, a mix between SCRUM and KANBAN

A private GitHub repository for code version control has been set up for the project.

Table 3.1: Tool Overview

Tool	Purpose	Link
Slack	Main Communications HUB, Chat	<a href="https://sdpgroup17.slack.com/">https://sdpgroup17.slack.com/</a>
Notion	Meeting Notes, Drafts, Project Management	<a href="https://www.notion.so/dispensed/">https://www.notion.so/dispensed/</a>
GitHub	Code Version Control	<a href="https://github.com/xMythycle/Dispensed/">https://github.com/xMythycle/Dispensed/</a>

## Bibliography

[BAR<sup>+</sup>09] BARBER, N D. ; ALLDRED, D P. ; RAYNOR, D K. ; DICKINSON, R ; GARFIELD, S ; JESSON, B ; LIM, R ; SAVAGE, I ; STANDAGE, C ; BUCKLE, P ; AL. et:  
*Care homes' use of medicines study: prevalence, causes and potential harm of medication errors in care homes for older people.*

<sup>1</sup><http://digital.nhs.uk/catalogue/PUB30033>

<http://qualitysafety.bmj.com/content/18/5/341>.  
Version: Oct 2009