**Requirements Document for Store Management Productivity App**

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# History of document

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# 1. Introduction

This project aims to create a phone application which will enable the user to log the time and date they organized a specific department in a store to a Google Sheet.

# 2. Glossary

Definition of key terms.

* Application – *Product will be based in a phone environment.*
* CSV – *Comma Separated Values. A format where data is delineated by commas for parsing by computers. Commonly used in spreadsheet applications.*
* Google Sheets – *A Google product for datasheet presentation and design, interfaceable with a provided API.*
* API – *Application Programming Interface. A set of rules and protocols for software applications to use in communicating and the exchange of data.*
* Wi-Fi – *Wireless Fidelity. A wireless networking technology using radio waves for internet access.*
* App – *Shorthand for Application.*
* User – *A store Employee.*
* Manager – *Manager of store.*
* .NET MAUI – *A cross platform framework for developing mobile and desktop apps using C# and XAML.*
* C# - *Object oriented programming language*
* XAML - *Extensible Application Markup Language. For building interfaces*

# 3. Assumptions

List of all reasonable assumptions.

* User will understand English.
* User will be a store employee.
* User will have access to a smartphone containing the application.
* User will have access to Wi-Fi.

# 4. Requirements

List of all requirements in user story with acceptance criteria format. Requirements are numbered, measurable, and in priority order.

User Story – a requirement formatted as: “As a [Role] I want [Feature] so that I can [Benefit].

Acceptance Criteria – A list of criteria a requirement must meet to be considered fulfilled.

1. As a User, I want to be able to log which department I have organized so that I can update the google sheet.
   * Acceptance Criteria:
     1. The user should be presented with a drop-down list of all departments in the store.
     2. The user should be able to select one of those departments to be updated in google sheets.
2. As a User, I want to be notified when a department has not been organized in three days.
   * Acceptance Criteria:
     1. The program should track when departments have been organized.
     2. The program should notify on the home screen of the app which departments are due for organization.
3. As a User, I want the program to be a phone app so that I can conveniently update and access the information.
   * Acceptance Criteria:
     1. The program should be formatted as an APK for android phones.
4. As a User, I want the program to have a computer app in case I don’t have an android phone so that I can use the program anyways.
   * Acceptance Criteria:
     1. The program should have a computer-based application.
     2. The computer application and phone application should both provide and retrieve the same information.
5. As a User, I want information I submit to be uploaded to a google sheet so that it can be reviewed.
   * Acceptance Criteria:
     1. Extracted information must be converted to CSV format for parsing by google sheets.
     2. CSV information must be able to be uploaded to google sheets through the Google API.
     3. The user must be able to sign in to google to see their documents.
     4. The user must be able to select the file they want to send the information to.
6. As a User, I want to be able to create a new google sheet so that I can send information to a new datasheet if needed.
   * Acceptance Criteria:
     1. The user must be presented with two buttons on the app’s home screen, “Choose File” and “Create New File”.
     2. “Choose File” must enable the user to choose the spreadsheet they want to upload to.
     3. “Create New File” must let the user create and name a new spreadsheet to send the data to.
7. As a User, I want to be able to see the name of the spreadsheet I am uploading to so that I can make sure I am sending the data to the right place.
   * Acceptance Criteria:
     1. The home screen and upload page must clearly show the user the name of the connected spreadsheet.
8. As a User, I want the program to keep the last selected spreadsheet so that I don’t have to reselect the file every time I want to upload to the same spreadsheet.
   * Acceptance Criteria:
     1. The app must keep the last selected spreadsheet saved in memory.
     2. The app should upload to the saved spreadsheet by default, unless the user selects “Create new File” or “Choose File” and finishes the process.
9. As a User, I want the app to present an error message if the process fails so that I can understand what happened and how to fix it.
   * Acceptance Criteria:
     1. In the event of an exception or error, the app should present an error message to the user.
     2. The error message should include the type of error.
     3. The error message should include an explanation of the error.
     4. The error message should direct the user on how to fix the error if possible.
10. As a User, I want the option to add comments to the data so that I can include supplemental information.
    * Acceptance Criteria:
      1. The program must give the user a “Comments” option.
      2. The “Comments” option should prompt the user to write into a text box.
      3. The comments section should be limited to a reasonable amount of text, such as 100 words.
11. As a User, I want to be able to edit information before uploading it so I can fix errors.
    * Acceptance Criteria:
      1. The program must present the user with the collected data before uploading.
      2. The data fields must be editable by the user.
12. As a User, I want the information uploaded to google sheets to be formatted so that I can understand it at a glance.
    * Acceptance Criteria:
      1. Extracted data must be formatted into a table.
      2. Table must have columns with names reflecting their data.
      3. Every row must contain a unique entry.
13. As a Developer, I want the program to collect information on errors so that I can fix the application if the fault lies with the program.
    * Acceptance Criteria:
      1. Errors should be logged by the application and sent to a support address.
      2. Errors should contain the type of error, along with the data entered.
      3. The User must be presented with the option and prompted to add information which might not be present in the error report.

# 5. Needs and factors

Each need and factor describe considerations for this project. Some needs and/or factors may not apply to the project, which will note N/A.

*5.1 Public health needs – N/A*

*5.2 Public safety needs – N/A*

*5.3 Public welfare needs – N/A*

*5.4 Global factors – N/A*

*5.5 Cultural factors – N/A*

*5.6 Social factors – N/A*

*5.7 Environmental factors – N/A*

*5.8 Economic factors – N/A*

# References

None