

‏‏‏17/04/2015

*Project 3 – SRS*

Software Requirements Specification - SRS

# General Information

|  |  |
| --- | --- |
| **BudgetBuddy** | **Project Name** |
| Nadav Luzzato, Rotem Nehama, Itai Michael, Liran Ben Gida | Team Members |
|  | Attached Documents |
| Project Proposal, Development Plan | Related Documents |

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Changelog

|  |  |  |  |
| --- | --- | --- | --- |
| Source | Description | Date | Version |
| None | ‏Initial Version | 9/4/2015 | 1.0 |
| None | Review fix | 16/4/2015 | 1.1 |

# Introduction

## Motivation

BudgetBuddy is a web application that offers a simple solution for managing both shared and private budgets, and organizing all the budget data in one place.

It can be used to:

* Manage household budgets.
* Set up collective payment systems for special occasions in order to track the payment status of participants.
* Assist in collecting maintenance fees for property management.
* Receive informative metadata of your spending.
* Allocate & track spending using budgeting calculator and category breakdown.
* Manage company spending.
* Global statistics about spending across all the budgeteers (Premium service)

BudgetBuddy will support :

* storing the user budget information on the cloud.
* allow sharing a budget privately or between several users.
* offer a service that helps the user manage his budgets.

BudgetBuddy will not support :

* verify payments
* paying through the service
* automatically submit spendings data

BudgetBuddy aims to give the best user expereince for its users by delivery of the data in various graphical forms, giving the user access to his budgets data from any place and support sharing a budgets between friends.

## Scope

For users, the requirements for using the service is simple, all it takes is a device with an internet access and a browser.

For developers, the service will be deployed on Google App Engine.

Developing languages includes Python for server side and JavaScript for client side

Code version control will be managed with Git and GitHub.

## Glossary

* Server - End-point on which the service will run.
* User - Budget manager, or a budget viewer that access the service.
* Shared Budget - A budget that is shared between several users.
* Private Budget - A budget that is only viewable by its creator.
* Budget - Monetary sum.
* Budget Manager - The user that created the budget, can share the budget with other users.
* Budget Partner - User that has been given access to a shared budget, can add expenses to the budget.
* Budget Viewer - User that has been giving only viewing permissions for the budget.
* Budgeteer- Generic definition for a user, can be Budget Manager, Budget Partner and / or Budget viewer.

## Review

In this document we will briefly give more details about our service in order to bring the product to its firsts step by using the following information:

* Introduction
* Glossary
* Use cases
* UML
* User scenarios
* User Stories
* Software Requirements
* Prototype

# Use Cases

# 2.1 Actor \ Stakeholder and their targets

|  |  |
| --- | --- |
| Target | Actor/Stakeholder |
| Creating a budget | Budget Manager |
| Adding/Removing Budget Partner or Budget Viewer to the Budget |  |
| Delete Budget |  |
| Edit Budget properties (Notifications, Tags) |  |
| Edit Budget entries |  |
| Viewing a budget |  |
| Edit Budget properties (Notifications, Tags) | Budget Partner |
| Edit Budget entries |  |
| Viewing a budget |  |
| Viewing a budget | Budget Viewer |
| Statistics about global spending | Entrepreneur |

# 2.2 UML system usage



**Budget**

**Partner**



**Budget**

**Manager**



**Budget**

**Viewer**



**Budgeteer**

**BudgetBuddy Actors Inheritance**



**Budget**

**Partner**



**Budget**

**Viewer**



**Budget**

**Manager**

**BudgetBuddy System Flow**

Creating a Budget

Adding / Removing Budgeteer to the list

Deleting a Budget

Editing Budget Properties (Notifications, Tags)

Editing Budget Entries

Viewing a Budget



**BudgetBuddy Pie Charts and Statistics**

Statistics about global spending

**Entrepreneur**

# 2.2 Formal usage scenarios

|  |  |
| --- | --- |
| Creating a budget | UseCase |
| Budget Manager | **Main Actor** |
| Budgeteer wants to create a new budget to track spending | **Target** |
| BudgetBuddy | **Scope** |
| Budget Manager | **Level** |
| Budgeteer - wants to create a budget to track spending  Entrepreneur - More budgets means better statistics | **Stakeholder & interests** |
| User clicked the 'Create a Budget' button | **Trigger** |
| User has successfully logged in to BudgetBuddy | **Pre-requisites** |
| Budget is created | **Successful completion conditions** |
| Budget is not created | **Failure end conditions** |
| **1.** User clicks the 'Create a Budget' button  **2.**  Insert budget ceiling  **3. Select Budget Type (Private, Shared)**  **3'.** Private Budget  **3''.** Shared Budget - Add other budgeteers  **3.1''.**  Manual or automatic division of budget share  **4.**  Manage budget notifications.  **5.** BudgetBuddy notifies all the budgeteers that are sharing the budget via e-mail, takes the user to new Budget page. | **Primary success scenario** |
| \* - Session expires -> Takes user back to the login screen.  3'' - Adding non-existents budgeteers :   * Prompt the user with error * Offer the user to invite a friend to use BudgetBuddy.   3.1'' - Invalid input -> Prompt the user with error. | **Extensions (errors)** |
| - | **Alternative scenarios** |

# 

|  |  |
| --- | --- |
| Editing Budget Properties | UseCase |
| Budgeteer wants to edit\add budgets properties such as notifications, partners or tags | **Target** |
| BudgetBuddy | **Scope** |
| Budget Manager, Budget Partner | **Level** |
| Budget Manager – Edit or add properties after he defined the budget  Budget Partner – Has access to edit or add properties due to his partnership with the Budget Manager on the budget | **Stakeholder & interests** |
| Budget Manager or Budget Partner clicked the ‘Edit Budget properties’ button | **Trigger** |
| Budget Manager has created a budget  Budget Manager has added a Partner Buddy (optional) | **Pre-requisites** |
| Budget properties has changed successfully | **Successful completion conditions** |
| Budget properties has not changed by Budget Manager \ Partner demands | **Failure end conditions** |
| **1.** Budget Manager\Partner clicks the ‘Edit Budget properties’ button  **2.** Budget Manager\Partner edits properties  2.2. Add\Remove Budget’s tags  2.3. Add\Remove budget’s notifications: expiration date, budgeteer list to notify, notify every X time period, Budget has reached his goal  **3.** Budget Manager\Partner click on ‘Confirm Changes’ button  **4.** Receives message if successfully changed | **Primary success scenario** |
| \* - Session expires -> Takes user back to the login screen.  **4.** User receives failure message due to system failure.   * Prompt the user with error * Let the user confirm the changes again * If again not successfully change – return these steps 3 times * After 3 times lock the option and prompt the user with system failure message information | **Extensions (errors)** |
| - | **Alternative scenarios** |
|  |  |

# User Stories

|  |  |  |
| --- | --- | --- |
| Description | Story |  |
| As a person who would like to keep track of his expenses,  I want to register,  So that I can utilize the service and become a budgeteer. | Register | **US1** |
| As a budgeteer,  I would like to access my account,  So that I can access my existing budgets and/or create new ones. | Login | **US2** |
| As a budgeteer who would like to manage his expenses for a specific occasion,  I would like to create a budget,  So that I can keep track of related expenses. | Create a Budget | **US3** |
| As a budgeteer who would like to get information regarding a budget he is a member of,  I want to access that budget,  So that I can get a detailed information about the expenses, and a graphical representation of those expenses. | View a budget | **US4** |
| As a clumsy budgeteer who forgot his password,  I want to use the service functionality of recovering lost password,  So that I can log back in. | Forget Password | **US5** |
| As a curious budgeteer who want to learn more information about the company, or get help on how to properly use the service,  I would like to navigate the site,  So that I get the information I want. | Site navigation | **US6** |
| As a logged in budgeteer who finished using the service,  I want to finish the session,  So that I can be sure nobody else will use my user. | Logout | **US7** |
| As a budgeteer,  I would like to invite a friend,  So that I can share a budget with him. | Invite a Friend | **US8** |
| As a budgeteer Manager Or Partner,  I would like to set up the budget properties,  So that I can change the budget behavior. | Edit Properties | **US9** |
| As a budgeteer Manager Or Partner,  I would like to edit entries in the budget,  So that I can set the budget to be more dynamically and informative. | Edit entries | **US10** |
| As a budgeteer Manager,  I would like to share the access of the budget,  So that I can let more budgeteers who wants to participate in the budget. | Add\Remove Budgeteers | **US11** |

# 4. Requirements

# 4.1 Requirements

* Internet access
* Web browser

# 4.2 Hardware Requirements

No Hardware Requirements.

# 4.3 Prototype

Link: [ProtoType](http://budgetbuddy00.wix.com/main)

Budgets panel: [Budget panel](http://budgetbuddy00.wix.com/main#!budgets/c1kpk)

Add\edit budget: [Add/Edit budget](http://budgetbuddy00.wix.com/main#!editview-budget/c21y1)

תבנית סיכום סקר דרישות תוכנה - SRS Review

 תעדו את מהלך הסקר. את טבלת המשימות נזין בהמשך באתר ניהול הפרויקט כ-issues.

# תוכן

|  |  |
| --- | --- |
| שם הפרויקט הנסקר |  |
| נציגי הלקוח (הסוקרים) |  |
| מועד ומקום הפגישה |  |
| שמות משתתפים |  |

# נקודות שעלו בסקר

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| --- | --- |
| 1. |  |
| 2. |  |
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# טבלת משימות הנובעות מהסקר (אפשר לחלופין למלא במערכת המשימות github issues)

|  |  |  |
| --- | --- | --- |
| נושא | פעולה נדרשת | באחריות |
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