# Birthday Manager Project

Software Requirements specification

Technical Assignment

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## Purpose

The purpose of this document is to give a detailed description of the requirements for the “Birthday Manager” software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

## Scope

The “Birthday Manager” is web application which helps people to find information about next colleague’s birthdays’, to take part in congratulation and preparing gifts for that person and also manage expenses spent on gifts.

User will be able to see approaching birthdays, to take part and to check how much money does he intend to spend on the gifts.

An administrator uses the web-portal in order to administer the system and store the information about user payments, user current balance and debts.

## Overall description

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it.

**System Overview:**



**Use Case Diagram:**



**Database Diagram:**



**Classes:**

*User*: Id, Username, FirstName, LastName, Password, Date Of Birth, Balance, Email, RoleId

*Payment:* Id, Message, Date, Amount, UserId

*Birthday:* Id, BirthdayUserId, Date, GiftId, IsPassed

*BirthdayAssignment:* BirthdayId, UserId

*Notification*: Id, Subject, Message, UserId

*Gift*: Id, Name, Description, Amount, Price

*Role:* Id, Name

## User interfaces



## Functional Requirements

1. **Login**
   1. User Authentication

1.1.1 Redirect to Login page for not authorized users

To use the system every User must Sign in. Nobody can access the system without authentication.

1.1.2 Login form

If I am not authorized in the system I can see only “Sign In” page that consists of Login form. Login form has two fields “username”, “password” and small link under “First Enter”. Username is the name from Endava credentials like “*vguleaev*”. There is no way to register in the system. Only Administrator can add users, because all people from department will be added by default.

1.1.3 First Enter

When user logins first time he doesn’t have a password yet so he click to “First Enter” link under login form. After that user will be able to create a password for his account and then sign in. Password will be encrypted in database but Administrator will be able to reset the password so user can press “First Enter” again and create a new pass in case he forgot his old.

* 1. Admin Authentication

Administrator use the same login page as a simple User. Every user should have a Role assigned, that’s how the system determine user rights. There can be more than one administrator in the system and more than two roles (User, Admin)

1. **See Approach Birthday**
   1. Display Birthdays

2.1.1 Next Birthdays page

As a System User like as an Administrator my default page after entering the system will be Next Birthdays. Next Birthdays shows all the users that has birthdays in current month. Current month is the salary period. Month range from 15ths. (e.g. 15/06/16 – 15/07/16)

2.1.2 Surprise effect

Users can’t see their own birthdays at “Next Birthdays” page!

2.1.3 Birthdays close to 15th

Users that has birthdays close to 15th like 5 days before should ALSO be shown in “Next Birthday” page. (e.g. user that has birthday at 16th should be shown in Next Birthdays otherwise it will be hidden until 15th but then it will be too late to react)

2.2 Buttons

Near every user in “next birthdays” grid will be a button. For Users it will be called “Participate” but for Admin it will be “Arrange”.

2.3 Check for Future Birthdays

In the bottom of a page will be a calendar icon with label “Check Future Birthdays”. It will be used for showing users that have birthdays not in current month (from 15 th to 15th) but in selected date period. The Result will be displayed in another page and users there will NOT have buttons “Participate/Arrange”.

1. **See Own Balance**

As a System user at the navigation top bar I have a button called “My Balance”. It shows user current balance. If he pay more than need, his balance has a positive number. In case he took part in some birthdays but didn’t make a payment his balance will be negative that means he has debt.

An Administrator should also has this option.

1. **See Own Payment History**

As a System user at the navigation top bar I have a button called “My Payments”. It shows user all his payment history. This page contains from a table with columns Date, Amount, Birthday

(e.g.|22/07/16 | 70 MDL | “Money for Didina’s bd ;)” |)

An Administrator should also has this option.

1. **Take Part in Birthday’s Gift**

As a System user when I go to Next Birthday’s grid I am able to press *Participate* button near user’s name. This means that I am automatically assigned to current Birthday and after a birthday will pass some money amount will be withdraw from my balance. (Default is 70 MDL but it is calculated by formula depends on how much people participate in congratulation)

If I have already pressed a *Participate* button, I can’t press it twice. So “*Participate*” button will be replaced with *“I’m In”* label. (Does we need to let user cancel??)

1. **Administrator Mode**

As a System Administrator at the navigation top bar I have a button called “Admin Panel”. After pressing this button my navigation top bar is replaced with special bar for administration. Switching to normal mode can be done by clicking a “Home” button at top admin bar.

1. **Add a Payment**

At admin top nav bar I can see “Add a Payment” button. After clicking on that buttons a form appears with following fields: User dropdown field with all users in the system including admins, a simple Message text field, money Amount that user payed.