



CentiSoft Time Registration

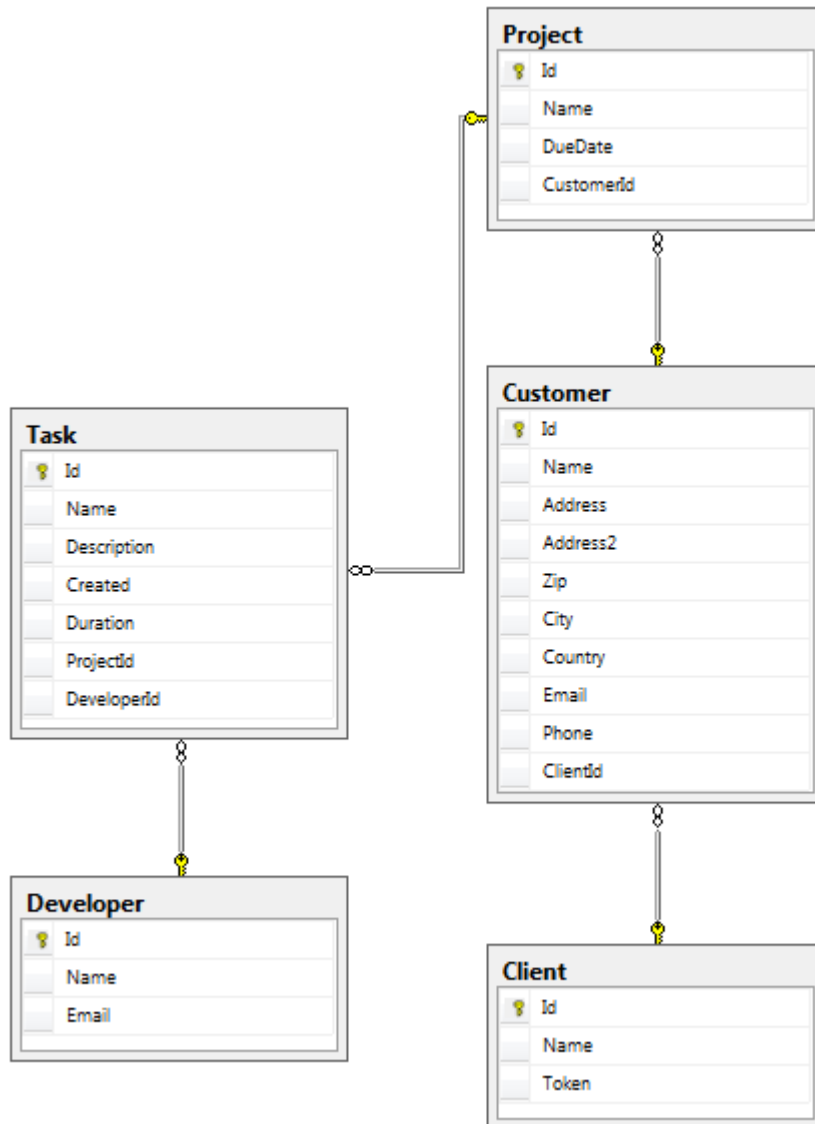
CentiSoft is a small company that is building software for time registration. The company develops and markets the software for small companies and startups that need simple software in which it is possible to manage projects, developers, tasks and time used on a task.

The CentiSoft Time Registration software will eventually be built as a Software as a Services (SaaS) solution, where each customer will have their own account and all customers will share the same software.

The current state

The current state of the software is a REST based service that exposes a set of endpoints where it is possible to perform basic CRUD operations for the various entities.

The REST service exposes a data model that represents Projects, Tasks and Employees. The datamodel for the REST services looks as shown below in figure 1.



Figur 1 - Data model of the CentiSoft Time Registration System

Development Assignment

The development assignment falls to a set of experienced developers (you). A front end need to be developed so that CentiSoft can market the product.

First a prototype needs to be implemented. The prototype will be a Proof of Concept (PoC) and the first version will work without login, but will still have security tokens implemented. These will be hardcoded for each customer.

The first version of the software will be focusing on managing project, tasks and developers for a single company. Each individual customer should only be available for that single customer. Each call to the web

service must carry a token that will eventually function as a security token. If no token is specified then the service will reject the request.

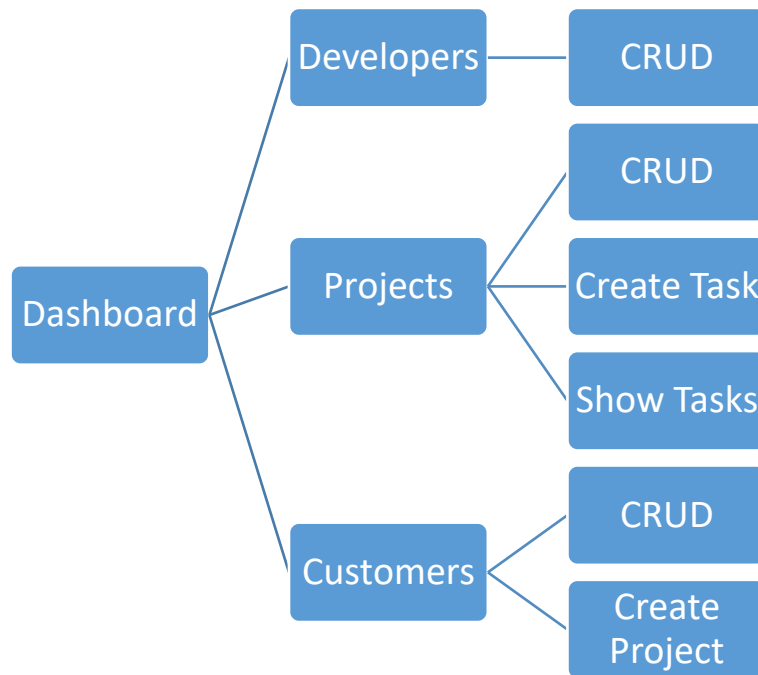
Requirements

- CRUD Project
- CRUD Developer
- CRUD Task on project
- CRUD Customer (a client can have more customers)
- Responsive frontend built on bootstrap
- JavaScript application and communication with the service
- Asynchronous communication with the server
- Visual confirmation when an asynchronous request completed (slide-up/down, must hide automatically)

When sending request to the server, a new HTTP header must be added called: "centisoft_token" with the value of the individual customer token.

Sitemap

This sitemap shows the general structure of the web application for CentiSoft. The main idea is that the dashboard contains some general information about the amount of developers, projects and customers. Maybe a quick access to create a new Time Registration or a similar shortcut.



Installation Guide

For this assignment we are going to use an existing web API project implementing the REST service. You can download the CentiSoft project from Canvas.

- After download first go to the Web.config file. On line 12 replace the value of the connectionString attribute to match the one of your own database.
- Start up the project.
- Make a GET request to /Home/Seed.
- Validate that a database is now created and seeded with some data.