Password Generator

Analysis and Design Document

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Revision History

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| **Date** | **Version** | **Description** | **Author** |
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# Project Specification

An application that allows user authentication and registration and generates password for each username with given complexity.

It can be either a mobile or a web application.

Functional requirements:

* Define one type of user
* Authentication using username and password
* Process password generation using given user complexity

Non-functional requirements:

* Validate all input data against invalid data before submitting the data and saving it into the data base
* Data will be stored in a relational database
* Use layered architectural pattern to organize the application
* Documentation

# Elaboration – Iteration 1.1

# Domain Model

A domain model is a visual representation of real situation objects in a domain. A domain is an area of concern. Its used to refer to the area you are dealing with. The model is a diagram, for domain models the class diagram UML is mostly used. The class diagram is only used for the notation. The term domain model does not mean a set of diagrams describing software classes.

So for example imagine a store. For that store you want to build a brand new Point Of Sale system (lets call it POS system). A POS system is a computerized application used to record sale and handle payments. So you focus on the domain of the POS system. Now you will conceptualize the objects that will be used for this system. So you will get objects like: Sale, Payment, Register, Item etc. In a domain model you model these objects and draw associations between them so that you have an high level idea how this system will work.

# Architectural Design

## Conceptual Architecture

Arhitectura pe trei niveluri este un model de arhitectură software în care interfața utilizator (prezentare), logica proceselor funcționale (application logic), stocarea datelor și accesul la date sunt dezvoltate și menținute ca module independente.

* Presentation layer - functionalitate orientată spre utilizator, responsabilă de gestionarea interacțiunii utilizatorilor cu sistemul
* Application layer - functionalitatea centrală a sistemului și încorporează logica de afaceri relevantă. În general, acesta este alcătuit din componente, dintre care unele pot expune interfețele de serviciu pe care ceilalți apelanți le pot utiliza.
* Data layer - oferă acces la datele găzduite în limitele sistemului și la datele expuse de alte sisteme din rețea; poate accesat prin servicii. Stratul de date expune interfețele generice pe care le pot consuma componentele din stratul de afacere.

Model-View-Controller este un model arhitectural utilizat în mod obișnuit pentru dezvoltarea interfețelor utilizator care împarte o aplicație în trei părți interconectate. Aceasta se face pentru a separa reprezentările interne ale informațiilor de modalitățile în care informațiile sunt prezentate și acceptate de la utilizator. Modelul de design MVC decuplează aceste componente majore, permițând reutilizarea eficientă a codurilor și dezvoltarea paralelă.

* Model - componenta centrală a arhitecturii. Este structura de date dinamică a aplicației, independentă de interfața cu utilizatorul. Administrează direct datele, logica și regulile aplicației.
* View - orice reprezentare a informațiilor. Sunt posibile vizionări multiple ale acelorași informații, cum ar fi o diagramă de stare pentru gestionare și o vizualizare tabelă pentru contabili.
* Controller - Acceptă intrarea și o convertește în comenzi pentru model sau vizualizare.

Modelul este responsabil pentru gestionarea datelor aplicației. Acesta primește intrarea utilizatorului de la controler.

View înseamnă prezentarea modelului într-un anumit format.

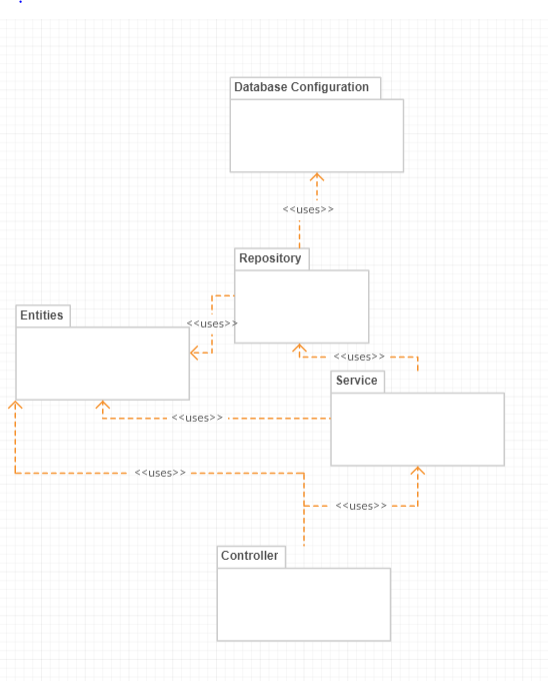
Controllerul răspunde la intrarea utilizatorului și efectuează interacțiuni cu obiectele modelului de date. Controlorul primește intrarea, validează opțional și apoi trece intrarea în model.

Ca și în cazul altor modele software, MVC exprimă "miezul soluției" unei probleme, permițând în același timp adaptarea acesteia pentru fiecare sistem.

## Package Design

Package diagrams are used to structure high level system elements. Packages are used for organizing large system which contains diagrams, documents and other key deliverables.

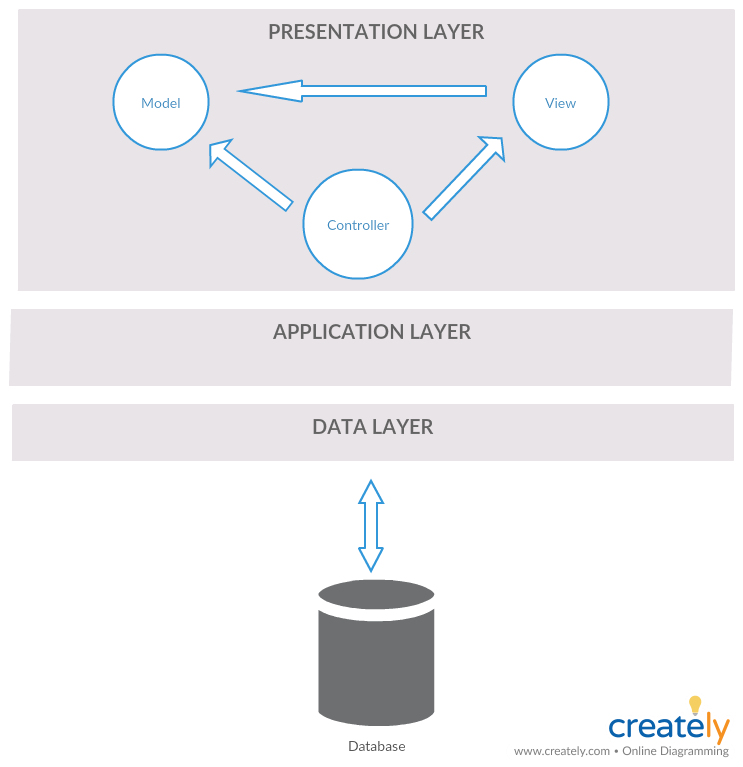
* Package Diagram can be used to simplify complex class diagrams, it can group classes into packages.
* A package is a collection of logically related UML elements.
* Packages are depicted as file folders and can be used on any of the UML diagrams.



## Component and Deployment Diagrams

Deployment diagrams are used to visualize the topology of the physical components of a system, where the software components are deployed.

Deployment diagrams are used to describe the static deployment view of a system. Deployment diagrams consist of nodes and their relationships.

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# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

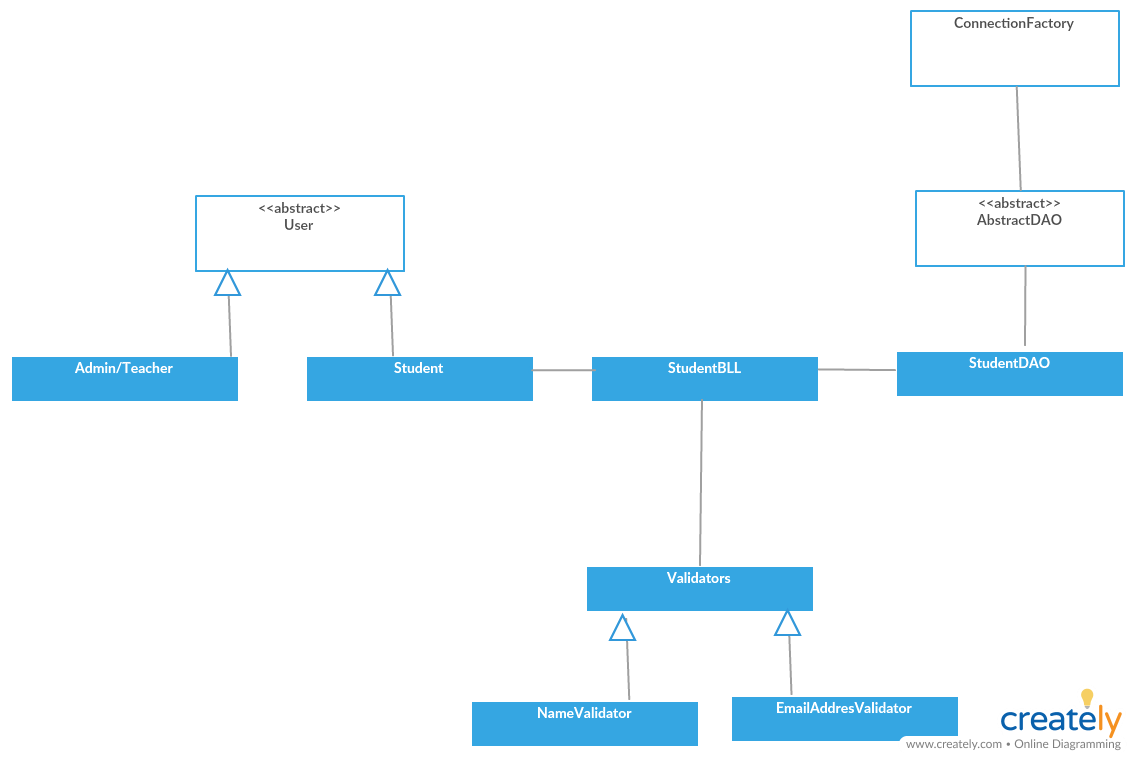
*[Create the interaction diagrams (1 sequence, 1 communication diagrams) for 2 relevant scenarios]*

*![A screenshot of a computer

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAtgAAANICAYAAAD9wpjyAAUF9klEQVR4nATg27qN6bqu2yYCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKACCuQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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8uYCAALBq1SqtW7cGAAAAAAAAAAAAAAABAQFixYoFAAoWLAgAAAAAAAAAAAAAvn//DgAgQoQIChYsCAAAAAAAAAAAAAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBKhYsSJ48+aNw4cPO3bsmGDBgmnWrBkAAAAAgO/fvwMAAAAAgK9fvwIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB79+41ZswYV69eFS5cOEWLFjVw4EDhwoUDz58/17VrV6dOnRI4cGC1atXSr18/sG3bNnXq1NGqVSthw4Y1e/Zsd+7cAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACwd+9eY8aMcfXqVeHChVO0aFEDBw4ULlw48Pz5c127dnXq1CmBAwdWq1Yt/fr1A9u2bVOnTh2tWrUSNmxYs2fPdvnyZQDw7ds3sWPHljJlSm3atDF58mQfP35UokQJY8aMcezYMVWqVAGzZs3y4sULS5YsAT169LB7925v375VqlQpo0aNEiZMGN++fRM7dmwpU6bUtWtX/fv3N3jwYA0aNAAHDhzw6tUrzZs3t2XLFmPGjHHnzh2hQoVSoEABI0eOFDFiRPDv3z9t2rRx5MgR379/V6BAAQMHDhQjRgxw6NAhY8eOdfLkSfHixdOiRQuNGjUCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACtXrhQiRAjZs2d38OBBd+/elThxYgCQKFEiAQEBVq9ebeDAgd69e6dcuXKGDRsGoHHjxtavX2/Pnj0GDBjg/PnzcufObd68eUKFCgUAAAD279+vVq1aAGD8+PHWrFnj0aNHUqVKZcCAAXLmzAlg+vTp5syZ4+HDh2LGjKlKlSr69+8Pjh07pkqVKmDWrFlevHhhyZIlICAgwPnz5wHAy5cvdenSxblz5wQOHFjGjBmNHz9e5MiRAWTNmtXdu3cdOnRI165dXblyRe7cua1YsQIAAAAAAGzZssWYMWPcuXNHqFChFChQwMiRI717907WrFlFjx7d9evXwadPn8SPH1/y5MkdP34c9OjRw+7du719+1apUqWMGjVKmDBhwLZt29SpU0erVq2EDRvW7Nmz3blzBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAlClTxIwZExw4cEChQoUMHjxY06ZNBQoUyJYtW4wZM8adO3eEChVKgQIFjBw5UsSIERUtWtSxY8dA3LhxnT59WuLEifXq1cumTZu8efNGnDhxNG/eXNOmTQHApk2bDB8+3NevX1WsWNGAAQMAbNmyxZgxY9y5c0eoUKEUKFDAyJEjRYwYESxYsMCsWbPcvn1bggQJ1KhRQ+fOnQHMmTPH0qVL3bhxQ/bs2fXs2VP27NkBAAAAAAAAAAAAAAAAAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAHz9+qFatGmjevLkvX76YOHGi+/fv27BhA8iTJ493797p1KmTFy9eGDBggJcvX5o6dSoICAgAPXv2lChRIgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP378UK1aNdC8eXNfvnwxceJE9+/ft2HDBpAnTx7v3r3TqVMnL168MGDAAC9fvjR16lQQEBAAevbsKVGiRAAAICAgwLNnz4waNUrWrFmtW7fOuHHj5MiRQ4YMGaxZs0aRIkU0a9ZM5cqVQZ06dSxbtkyXLl38999/Ro4c6fjx486fPw8CAgJAo0aNhA0bVuTIkW3dulXu3LlVrVpVmzZtvHjxQtWqVYUKFUrDhg09efLEnDlzfP782bJly0CZMmVs375d1apVRYwY0axZszx69Mj27dudOXNGgQIF5M2bV69evezfv1+TJk0EDRpU3bp1AQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwKlTp1y+fFmdOnVky5bNwYMHrVy5Uq9evQAABAQEqFChgmrVqjl27JgRI0YIFCiQoUOHAggICNCuXTsRIkSQKFEiq1at8urVK/v27QMAAAABAQEAYPDgwfr3769gwYJq1Khh8uTJypYt6/Lly2LGjGnFihVat24tZ86cWrRo4ezZswYOHCh69OhatGghWrRo1qxZo0iRIpo1a6Zy5coAICAgAADkyJHDw4cPVa1a1d+/fy1ZssSpU6fcuHEDAAQEBChcuLASJUqIGzeuVatWiRYtmkmTJgEAAACAFy9eqFq1qlChQmnYsKEnT56YM2eOz58/W7ZsmVSpUjl27JibN29Knjy53bt3CwgIUKlSJVCnTh3Lli3TpUsX//33n5EjRzp+/Ljz588DCAgIAD179pQoUSIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQoUUKNGDStWrHD48GHJkiVTtWpVoUKF0rBhQ0+ePDFnzhyfP3+2bNkygwYN8u3bN8eOHbN161YRIkTQsWNHEydO1KBBA1GiRLFx40bNmzeXN29eKVKkAD9//lSpUiV169Z14sQJgwYNEihQIP379/fixQtVq1YVKlQoDRs29OTJE3PmzPH582fLli2zc+dOjRo1UrRoUZ07d3b27Fldu3b15csX/fr1M2XKFO3atdOsWTPFihUzZ84cefPmdf36dYkTJwYAAAAAAAAAAAAAAAAAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOD48ePev3+vRo0aunfvLnz48KJGjQpgzpw57t+/b968eRo0aACuXr1q+vTpBg8eDGDXrl3evHkjUqRIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACOHz/u/fv3atSooXv37sKHDy9q1KgA5syZ4/79++bNm6dBgwbg6tWrpk+fbvDgwQB27drlzZs3IkWK5Nu3bwAA4OPHj27fvi1IkCAKFSqkVq1azpw5o0qVKh49egQgZ86c7ty5Y9myZRo2bGjUqFEgWLBgBg8ebN26dUqWLAmOHz9u3759ChQoAK5fvw4gZ86c1q5dq27dutKmTatt27b+/v1rw4YNrly5Ak6ePGn79u0aNGhg3rx54MuXLw4dOuTBgwcmTpwI5s+fL1GiRFq2bCl48OBGjx6tbt26AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYMWKFaBy5cqyZ8+uXbt2Vq9erVevXgAAYMaMGWrXri0gIEDq1KmNGjXKkCFDBAoUCEDWrFmNHz8eVKhQwaZNm+zfv1/BggUBAAAAAAwbNkyKFCns3bsXJE2a1NChQ+3atUv9+vUdP35ckyZNtGnTRrp06Rw4cMDOnTtdv34dJEmSxKNHjwDkzJkTAADAhAkTPHz4UL9+/QwYMAD07NnTyJEjzZw5U/PmzQHA9u3bZcqUyYsXL8SKFcupU6cAAAAAABw9elTdunWlTZtW27Zt/f3714YNG1y5cgVUqVLFsWPHbN++XfLkye3duxdUqlTJnTt3LFu2TMOGDY0aNQoECxbM4MGDrVu3TqVKlQDs2rXLmzdvRIoUCQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADEjRsX3Lp1y+vXr9WtW1fatGm1bdvW379/bdiwwZUrV0DOnDkBpEuXTujQoX358kWTJk3MmjULhA0bVv/+/V2/fl2KFCkAzJs3T7169QQEBEiTJo2RI0fq37+/o0ePqlu3rrRp02rbtq2/f//asGGDK1eugBMnToDy5ctr1aqVX79+GTlyJIARI0ZInDixGTNmgKxZsypWrJiJEyeaNGkSAAAAAAAAAAAAAAAAAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2bJlkzx5citWrLBixQr58uVTvHhxTZs2BdevXwedOnXSqVMn8O3bN3Dnzh0AefPmFSlSJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAkC1bNsmTJ7dixQorVqyQL18+xYsX17RpU3D9+nXQqVMnnTp1At++fQN37twBkDdvXpEiRQIAAAApUqQQJEgQECdOHPD161cAAHDt2jWwfv1669evBwC3b99WsmRJkClTJgUKFAAAAFC5cmUFCxa0bNky9evXd/bsWT9//gRw8+ZNkD59egCLFy8GcO3aNZAlSxYAcPv2bQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADLly8XLlw45cuXB0WLFrV7927nzp2TKVMmAACVKlUCESJEkC1bNhs3bnT79m3JkiUDUKxYMQAFChSwadMmt2/fVrBgQQAAAADw+PFjP378kDx5cgDNmjXTrFkzABMnTnT9+nWrV682YMAABw4cAAAAAAAAAHD9+nVQokQJAEWLFjVy5Eg3b94EAJA+fXoQI0YM8OXLFwAAAAAAlStXVrBgQcuWLVO/fn1nz5718+dPAFWqVNGpUyc7d+7UoUMHu3fvliNHDokTJ7Zp0yawfv1669evBwC3b98GAHnz5hUpUiQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC/fv1SuXJlBQsWtGzZMvXr13f27Fk/f/4EAAAAs2bNcvDgQd27d3f+/Hl79uwBAAAVK1YEESJEkCNHDuvWrXPnzh2VK1dWsGBBy5YtU79+fWfPnvXz508AOXPmBG3atNGlSxclSpRQvHhxzZs39/HjR8+ePQORIkUCAHfu3AEAAAAAAAAAAAAAAAAAAAAAAEEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIHDgwODv378AAABChQrl+vXrlixZYsuWLTZv3uzQoUNmzZrl+vXrggcPDrZu3QoAIHTo0N68eQNChgwJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIHDgz+/v0LAAAgVKhQrl+/bsmSJbZs2WLz5s0OHTpk1qxZrl+/Lnjw4GDr1q0AAEKHDu3NmzcgZMiQAAAAAAAAAAAAIESIEKBHjx7y5s0LAAAgePDgAAAA4NatW/LlyydBggQaN26sS5cucuTIAeD3798AAAAgePDgggcPbuvWrQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYMuWLV6+fClDhgwqV64MQoUKBVavXi1TpkwAAAAgUKBAIEiQIAAAAAIFCgSCBAkCAAAAAOD3798gUKBAAAAAVq5cqWbNmsqXL69atWp69+4ta9asAAAAAAAAAAAAAP7+/QsAAAAAAAAAAABu3bolX758EiRIoHHjxrp06SJHjhwA4sSJo1ChQnbu3On27dvu3LmjadOmIESIEKBHjx7y5s0LAAAAQoYMCQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHj9+DGLFiuXWrVvy5csnQYIEGjdurEuXLnLkyAEAAAB69uxp5MiRWrZsqW3btooVK6Zbt24AAP79+wcgUKBA4M+fP27duiVfvnwSJEigcePGunTpIkeOHACKFSvm9evXlixZYsuWLTZs2GDDhg327Nlj6dKloESJEvr27QsAAAAAAAAAAAAAAAAAAAAAAAAAggAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABA+vTp3b1717Zt2zRq1AgcOXLEgwcPxIgRQ9SoUY0bNw6kT5/eihUrQJUqVaxbt87Vq1clS5YMXL58WbNmzcCwYcNA6dKlAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAApE+f3t27d23btk2jRo3AkSNHPHjwQIwYMUSNGtW4ceNA+vTprVixAlSpUsW6detcvXpVsmTJwOXLlzVr1gwMGzYMlC5dGgAAAAAAAAAAAABAsmTJwOXLl3Xr1g3MmzfPixcvhA8fXoYMGQAAAADAtm3bvHr1yrx585QqVcq9e/d8+/YNQPLkycHZs2cB1KlTx7Fjxxw4cECyZMmcOHFChAgRpEyZEgwbNgzkzJkTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAihUrwIMHDzx48AAArFy50vDhwwEArF+/Xq1atbx//97JkyeFDh1aokSJAMDu3buVLFkS7N+/HyRLlgwAAAAAQMKECf3333+uXLni379/AgUKZMaMGUaNGmXgwIHq1q1rxYoVYNGiRcKGDWvRokUAAAAAAAAAUqRIAXbs2CFHjhxg165dIHXq1AAAAAAAAAAAAGDbtm1evXpl3rx5SpUq5d69e759+wYAqlSpYt++fXbv3g0qV64MkiVLBi5fvqxbt25g3rx5Xrx4IXz48HLmzAkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOHDhgxYoVQoQIoVSpUqZOnerVq1fmzZunVKlS7t2759u3bwAAAGDGjBmyZctm6tSpYMOGDQAAYMOGDerVq+fjx49OnjwpePDgkidPbsKECV69emXevHlKlSrl3r17vn37BmDcuHGgTZs22rdv79mzZzJlymTnzp2CBQsmXrx4rl27JmfOnODy5cs2b94McubMCQAAAAAAAAAAAAAAAAAAAAAgCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC0b9/eunXrNGnSxIQJE4QKFcqpU6dAjx49QMqUKZUuXVry5MlVqVLF+/fvrVu3TuLEiWXOnFnmzJkNHjxYx44dPX/+3JMnT8ydO1eTJk2kT5/e06dPAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABA+/btrVu3TpMmTUyYMEGoUKGcOnUK9OjRA6RMmVLp0qUlT55clSpVvH//3rp16yROnFjmzJllzpzZ4MGDdezY0fPnzz158sTcuXM1adJE+vTpPX36FAAAAAAAAAAAhAkTBly+fNnEiRO1b99e7dq1LV26VNSoUQUNGtSECRMkS5bM5cuXffv2DQAAAACEDx8eDBo0yJEjR+zYsQMA5M6dW+HChS1ZssTnz59FjRrVsmXLVKpUSbx48XTo0MGiRYs0adJE5cqVHTt2zLp168yZMwcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMC3b9+sWLFCpEiRvHnzBgAUL17c7t27HThwQIECBQBAkyZN7N2719GjRz1//tygQYMAABw/flzZsmV9+PDBkSNHlCxZUp48eQAAAAAAQI8ePQwdOlS+fPlkz57dxIkTxYoVS9myZUGECBFAzZo1xYsXz5o1awAAhAkTBly+fNnEiRO1b98eAAB07NjRxIkTDRo0yPXr1/3588e6deukTJlS06ZNAQAAAAAAwKNHj1SuXBkAJEmSRIoUKcCgQYMcOXLEjh07AABUqVJFq1attGnTRo4cOSRKlAgkSJBA7dq1LV26VNSoUQUNGtSECRMkS5bM5cuXAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAmzZtwJs3bxw+fBiMHDlS0KBBhQ8fHgwaNMiRI0fs2LEDAECECBHAmDFj1KlTR6RIkZw6dUr9+vX9+vXL2bNnAQBA48aN7d+/38mTJz158kT//v1B+PDhwaBBgxw5csSOHTsAwOvXr40cOdK+ffvkzJnT7du3vXr1Sq1atUC3bt20adNGkyZNJEmSxMaNG508edLVq1cBAAAAAAAAAAAAAAAAAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMibN6/jx4+bNGmSY8eOeffuneLFi6tXr56aNWuCkiVLWrBggdmzZ1u8eLEQIUIoU6aMkSNHAti/f79OnTpZuHChGDFiGDhwoL59+wKIECECAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC8efM6fvy4SZMmOXbsmHfv3ilevLh69eqpWbMmKFmypAULFpg9e7bFixcLESKEMmXKGDlyJID9+/fr1KmThQsXihEjhoEDB+rbty+ACBEiAACIECECAIgQIQIAgAgRIgDIli2b2rVr2717t6hRo4LFixeLHDmyvXv3+vv3r5o1a5o2bRqACBEiAACACBEiAGjYsKETJ07YvXu3U6dOGT9+vFq1anny5Im7d+9KnDixzZs3a9eunePHj7tx44Z27doZNGgQyJAhg127dhkzZozhw4fLlCmT5cuXq169OgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgOXLlwsXLpwqVaoAAKhUqZLTp09btWqVAgUKAAgVKpQNGzYYOHCgoEGD6t+/vz59+gAAmDp1qv79+7t//76aNWtavHgxAIgQIQIAgAgRIgCAwYMHCxs2rPXr11u1apVSpUoZOHCgCBEigOHDhwsICHDixAnBggVz7Ngx2bJlc+nSJQDZsmVTu3Ztu3fvFjVqVAAQIUIEAHDy5EldunRx/vx5gQMHVr9+fePHjwcAECFCBAAQIUIEAAARIkRw9epVV69eBQBJkiTRsGFDJ06csHv3bqdOnTJ+/Hi1atXy5MkTd+/elThxYlGiRFGqVCnbtm1TqVIlALB48WKRI0e2d+9ef//+VbNmTdOmTQMAESJEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABEiRLB//34QKVIkJUqU0Lp1a6VLlwYNGzZ04sQJu3fvdurUKePHj1erVi1Pnjxx9+5diRMn1rx5c0+ePLFw4UJ16tQxa9YsQ4YMceLECeXKlVOwYEHdu3d37NgxFStWBBEiRDB//nwjRozw33//6d+/v/79+4OGDRs6ceKE3bt3O3XqlPHjx6tVq5YnT564e/eu4cOHixAhgtWrV5syZYoYMWJo166dUaNGgVatWvn3759ly5bZs2ePLFmyOHfunJQpUwIAAAAAAAAAAAAAAAAAAAAAgCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANmzZ7d06VIAAABQr1499erVAwAAEC9ePGvWrAEAAKVKlfLu3TsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJA9e3ZLly4FAAAA9erVU69ePQAAAPHixbNmzRoAAFCqVCnv3r0DACFDhvTu3TsAIUOG9O7dOwCQJ08e7969AwCLFy8GADBhwgQAABAyZEjv3r0DAJAyZUrv3r0DADNnzgQAT58+BQAhQoQwa9YsAAAARYoUUaRIEQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAjRo10qhRIwAA0Lx5c82bNwcAAEWKFFGkSBEAAAAAmzdvBgAA8O7dOwDQt29fffv2BQDQrVs33bp1AwAAMWLEsH79egDw7t07AACLFy8GALB3714AANGjR7d48WIAAABw+vRpAADv3r0DAGXLlvXu3TsAAAAwc+ZMAPD06VMAAIkTJwaVKlUCADBhwgQAAAClSpXy7t07AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN2/eBAAAAAAzZ84EAE+fPgUAZcuWVbZsWQCJEydWuHBhANC0aVMAt27dAlC+fHkAADBz5kwA8PTpUwDQvXt33bt3BwAA0Lp1a61btwYAAAAAAAAAAAAAAAAAAAAAAAAAQQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABOnDhhz5495s2bJ0eOHBIlSgQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECwYMEAAAAARIgQAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMCkSZNkypTJxIkTAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACBQoEAAAAAAAAAAAAAAAAAAAgH///gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgECBAgEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA6N+/vwEDBgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKFCggIMHDwIAAAAAAAgUKBAAAACAzJkzAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHj9+rWMGTMCAAAAAAAAAID+/fsbMGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4cOCAggULAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgH///gEAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADw798/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//79AwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABw4MABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFCgQAH//v0DAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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awz9p4wAAAACAwLRlBZ+YBEKurRWat4eA8NFAmDBhGoaEhHwNCAhICxByb5/Qd/cABGWoAgB+/vx5FgAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACBMmDBNAKDdwrOev/8GoHe59LqUSgcAIEPi6GrlSe7Sw3fO33+nVNaEAAAg5Gco6FwyrR5l0gkKDAMA4Nz9txYdvgdgWNXftSycCgDEjhpej7Lp5U8fV9Hh+4X8DHXhwTtLjtxXK09yAOPrZDW+TlYAAJAsdmT/pI2jQb5fFR22z5l7b8GkHTc0LZASRIkQ5J+0ccCiQ/cAxI8ewT9p4wAAAOi+7IKQn6EgU5LodnbLJ0qEIABBgWEUyhRf3rRxVBl/xM5Lz0DnJecc7VcQAAAAAARlqiH45FRCQwj5LvjqGmEz1wEICBMmTCsACD43H0BArNQCE+YAgIvhwoU7CwAAAABBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAM+fP48SEBBQEODakw/WnXoEoHPJtLqUSgcAAAAyJI4uQ+LoAAAAoH+FDDqUSAsAAGDhwXsA8qaJrWXhVAAAAHKnjq1LybQGr78CZu29o1ae5AAAAAAAIEqEIH3KZ1B2zCFw+/knz959FS96BAAAAAAAAHDr2Ud7rjwHMK1BdlEiBAEAgAhhA01vmF26Tlt8C/7pwoN3Dl9/KXfq2AAAAADCREkgMMV/Qm7vAMEXFgubuQ4AAPj58YmQe/sABP1eGwCEhIRMAgAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIgZM2YuBAGsOfkQwC9RwulSKi0AAAAAAAAAgIQxI+pQIi0AAADYev4JgAb5fgUAAABQM08yg9dfASduv/b283cxIoUDAAAAAAA5UsYCANeefBAvegQAAAAAAACw5/JzADl+jSVz0hgAAAAgXvQISmVNaOXxh2DLuSdyp44NAAAAAIIy1RByewcIfX1dyJMzAhP8AQAg+Nx8QkOAcFEFpS0LAG9fv369EAAAAAAgCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAatdYcgfmL6qWAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABq11hyB+YvqpYCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAatdYcgfmL6qWAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgICAtAJy49RpA0cwJRAgbCAAAAAAAAAAgKEwAAAAA+Pg12O3nnwB8/RFi/9UXAAAAACKHD/TpWwi4/Oi93KliAwB4+/m78/ffuf/yMwAAAAAAAAAAAAAAOP/gLYDokcLaf/UFAAAAgPBhAwFcf/oBAAAAAEBgsn8FRE0k9MMjEHxxkcAEfwCA0J/BQq6sBBCUtqyAcJEBYGHcuHE/AgAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAMkBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECA5AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgQHIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgMDAwF8A4NGbLwDSJ4oGAAAAAAAAAAAAAAAAXn38BgCazj4FAAAAAAAgOCQUAOy/+sKozdfsufxcyM9QAAAAAAAAAAAAAAAAz959BbDz4jM7Lz4DAAAAAADvPv8AAAAAAABBmWv7cXAICLm+Qeg/vQWEjwYg5OYWoZ9fAgj6vQ4A+P79+yQAAAAAAAgCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB49/kHgBiRwgIAAAAAAAAAAAAAAAAAAAAAAAAAgMAwAeJFjwCg14oLRm+5DgAAAAAAAAAAAAAAAADeff4BAAAAAAAAAH6NGwUAAAAAAASlq+jHkVGEfCfku+Cra4TNXAdA8Ln5AMIk+VuYWCkBYGf48OGvAgAAAABAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCASBZ7Ejuv/oMbj3/BAAAAAAAAAAAAAAAAAAAepdLL1HMSAAAAAAA0ieKJk2CqGDNiYdGb7kO4Nc4kVX9K6k/kscUJUIQAIBiw/cDAAAAAAAAAIBEMSMC+Ou3X9T9JwUAAAAAgPBhwyiVNSEAAAAAAAiIGEvgb8WFXFsLgi8sFjZzHfDz1TU/n5wEEJSxOgAICQmZBgAAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEhJyKzAwEMCvcaM4cO0lOHLjJQAAAAAAAAAAAAAAAEgWO7LwQWF8C/4JksaOrNpfSQEAAAAAAMC4bTcAFP09vmWt/hIUGAYAAAAAAAA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## Class Design

*[Create the UML class diagram; apply GoF patterns and motivate your choice]*



# Data Model

*[Create the data model for the system.]*

*A screenshot of a cell phone

Description automatically generated*

# Unit Testing

*[Present the used testing methods and the associated test case scenarios.]*

# Elaboration – Iteration 2

# Architectural Design Refinement

*[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]*

# Design Model Refinement

## *[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]*

# Construction and Transition

# System Testing

*[Describe how you applied integration testing and present the associated test case scenarios.]*

# Future improvements

*[Present future improvements for the system]*

# Bibliography