Password Generator

Analysis and Design Document

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Revision History

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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.

A close up of a map

Description automatically generated

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
* Bussines 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.
* Reposotory 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.

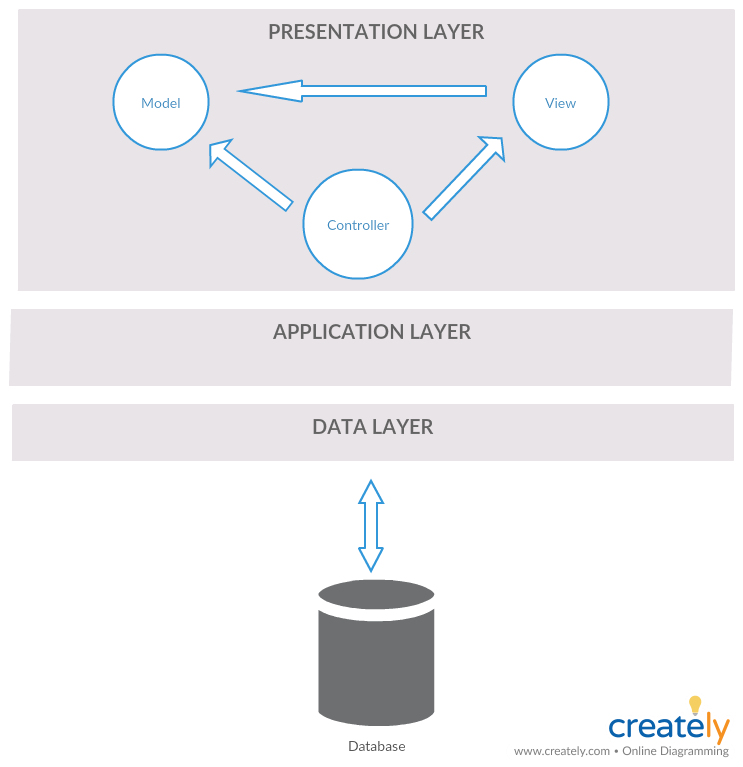
* Model - componenta centrală a arhitecturii. Este structura de date dinamică a aplicației, independentă de interfața cu utilizatorul. Administrează direct datele, logica și regulile aplicației.
* View - orice reprezentare a informațiilor. Sunt posibile vizionări multiple ale acelorași informații, cum 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.

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## 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.

A close up of text on a whiteboard

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## 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.

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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

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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

*A screenshot of a cell phone

Description automatically generated*

# Data Model

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

*A screenshot of a cell phone

Description automatically generated*

# Unit Testing

Use case: Generate password

Level: <one of: summary level, user-goal level, sub-function>

Primary actor: User

Main success scenario:

The user performs a log in in the application

Request a new password that has not been used before

Chooses one

Request the password to be stored into the data base

Extensions: failure: unable to log in

# Elaboration – Iteration 2

# Architectural Design Refinement

# Design Model Refinement

General Responsibility Assignment Software Patterns (or Principles), abbreviated GRASP, consist of guidelines for assigning responsibility to classes and objects in [object-oriented design](https://en.wikipedia.org/wiki/Object-oriented_design).[[1]](https://en.wikipedia.org/wiki/GRASP_(object-oriented_design)#cite_note-1) It is not related to the [SOLID](https://en.wikipedia.org/wiki/SOLID) design principle.

The different patterns and principles used in GRASP are controller, creator, indirection, information expert, high [cohesion](https://en.wikipedia.org/wiki/Cohesion_(computer_science)), low [coupling](https://en.wikipedia.org/wiki/Coupling_(computer_science)), [polymorphism](https://en.wikipedia.org/wiki/Polymorphism_(object-oriented_programming)), protected variations, and pure fabrication. All these patterns answer some [software](https://en.wikipedia.org/wiki/Software) problems, and these problems are common to almost every [software development](https://en.wikipedia.org/wiki/Software_development) project. These techniques have not been invented to create new ways of working, but to better document and standardize old, tried-and-tested [programming](https://en.wikipedia.org/wiki/Computer_programming) principles in object-oriented design.

The controller pattern assigns the responsibility of dealing with system events to a non-[UI](https://en.wikipedia.org/wiki/User_Interface) class that represents the overall system or a [use case](https://en.wikipedia.org/wiki/Use_case) scenario. A controller object is a non-user interface object responsible for receiving or handling a system event.

A use case controller should be used to deal with all system events of a use case, and may be used for more than one use case. For instance, for the use cases Create User and Delete User, one can have a single class called UserController, instead of two separate use case controllers.

The controller is defined as the first object beyond the UI layer that receives and coordinates ("controls") a system operation. The controller should delegate the work that needs to be done to other objects; it coordinates or controls the activity. It should not do much work itself. The GRASP Controller can be thought of as being a part of the application/service layer[[3]](https://en.wikipedia.org/wiki/GRASP_(object-oriented_design)#cite_note-3) (assuming that the application has made an explicit distinction between the application/service layer and the [domain layer](https://en.wikipedia.org/wiki/Domain_layer)) in an object-oriented system with common layers in an information system logical architecture.

Coupling is a measure of how strongly one element is connected to, has knowledge of, or relies on other elements. Low coupling is an evaluative pattern that dictates how to assign responsibilities to support

* lower dependency between the classes,
* change in one class having lower impact on other classes,
* higher reuse potential.

# Construction and Transition

# System Testing

System Testing is the testing of a complete and fully integrated software product. Usually, software is only one element of a larger computer-based system. Ultimately, software is interfaced with other software/hardware systems. System Testing is actually a series of different tests whose sole purpose is to exercise the full computer-based system.

# Future improvements

# Bibliography