Income Tax Calculator

Version <1.0>

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	Version:	<1.0>
Design		

Versions History

Date	Version	Description	Author
<1/4/2016>	<1.0>	First version the project's base.	Σιρινιάν Αράμ Εμμανουήλ

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1. Introduction

This project is about an income tax calculator. The objectives of the project are:

- (1) Flexible creation of taxpayer's profile by using data input files. Data input file's may be both TXT and XML
- (2) Easy and user friendly information management about a set of taxpayers.
- (3) Easy and rich taxpayer's information display.
- (4) Create and save to data output file abilities. Data output file contains practical taxpayer's information.

2. Design

Class Name: HeadOfHouseholdTaxpayer		
Responsibilities	Συσχετίσεις	
 This class is responsible for computing basic tax for head of household taxpayer's. 	■ Inheritance with Taxpayer class.	
Class Name: MarriedFilingJointlyTaxpayer		
Responsibilities	Συσχετίσεις	
 This class is responsible for computing basic tax for married filing jointly taxpayer's. 	■ Inheritance with Taxpayer class.	
Class Name: MarriedFilingSeparatelyTaxpay	er	
Responsibilities	Συσχετίσεις	
 This class is responsible for computing basic tax for 	 Inheritance with Taxpayer class. 	

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Class Name: SingleTaxpayer			
Συσχετίσεις			
■ Inheritance with Taxpayer class.			
Συσχετίσεις			
 Association with MarriedFilingJointlyTaxpayer class. Association with HeadOfHousehold class. Association with MarriedFilingSeparatelyTaxpayer class. Association with SingleTaxpayer class. 			
Συσχετίσεις			
 Aggregation with Receipt class. Dependency with Company class. 			

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Responsibilities	Συσχετίσεις	
 This class is responsible for storing all receipt's associating information. 	 Composition aggregation with Company class. 	
Class Name: Company		
Responsibilities	Συσχετίσεις	
 This class is responsible for storing all company's associating information. 	■ None	
Class Name: InputManager		
Responsibilities	Συσχετίσεις	
 This class is responsible for getting all needed information about a taxpayer his receipts and their companies from a file. 	 Association with TaxpayerFactory class. Association with Taxpayer class 	
Class Name: OutputManager		
Responsibilities	Συσχετίσεις	
 This class is responsible for storing taxpayer's information to Log file's, for rewriting Info file's and showing charts of taxpayer's data. 	 Association with Taxpayer class. Dependency with Receipt class. Dependency with Company class. 	

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Class Name: AccountsManager		
Responsibilities	Συσχετίσεις	
 This class is responsible for storing and managing Taxpayer profile's as well providing methods to do so. 	 Composition aggregation with InputManager class. Composition aggregation with OutputManager class. Aggregation with Taxpayer class. 	
Class Name: GuiManager	T	
Responsibilities	Συσχετίσεις	
 This class is responsible for the interacting between user and program. 	 Composition aggregation with AccountsManager class. Association with Taxpayer class. 	

3. Implementation