
Source Code Analyzation with OpenStaticAnalyzer

for

Shop Assistant

Submitted To

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1. Project Information

Project Name	Shop Assistant
Supervised By	Dipanita Saha Assistant Professor Institute of Information Technology(IIT) Noakhali Science and Technology University
Team Members	Prosanto Deb (ASH1925005M)
	Sultana Marjan (BKH1925010F)
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GitHub Link	Shop Assistant
Project Report	Shop Assistant Report

2. Architecture Smells

Project Name	Package Name	Architecture Smell	Cause of the Smell
Source Code	ShopAssistant	Feature Concentration	The tool detected the smell in this component because the component realizes more than one architectural concern/feature. Independent sets of related classes within this component are: [AddCostPage]; [AdvancedStockCheckPage]; [CreatePurchaseInvoicePage]; [CreateSalesInvoicePage]; [DailyIncomeCostPage]; [DueCheckPage]; [HomePage; LoginPage]; [SettingsPage];

			[StaffAttendancePage]; [StockCheckPage]. LCC (Lack of Component Cohesion) = 0.91
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3. Design Smells

Project Name	Package Name	Type Name	Design Smell	Cause of the Smell
Source Code	Main	MainPage	Deficient Encapsulation	The tool detected the smell in this class because the class exposes fields belonging to it with public accessibility. Following fields are declared with public accessibility: welcomeLabel; projectNameLabel; teamNameLabel; progressLabel; progressbar
Source Code	Main	MainPage	Broken Hierarchy	The tool detected a potential instance of the smell because this type does not implement or override any method from it's supertype(s): StartingTemplate
Source Code	Shop Assistant	Add CostPage	Deficient Encapsulation	The tool detected the smell in this class because the class exposes fields belonging to it with public accessibility. Following fields are declared with public accessibility: inputPanel; dateLabel; costTypeLabel; amountLabel; costSubmitButton; dateTextField; costAmountTextField; costTypeCombobox; costType

4. Testability Smells

Project Name	Package Name	Type Name	Testability Smell	Cause of the Smell
Source Code	Templates	DashBoard	Excessive	The tool detected the smell in this class

		Template	Dependency	because the class depends on too many dependencies. The total number of dependencies is: 11
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