SOFTWARE DESIGN SPECIFICATION
for
hoalaclaptops.com

Version 0.1. Work in progress.

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May 2024

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1. Overview

1.1. Code Packages
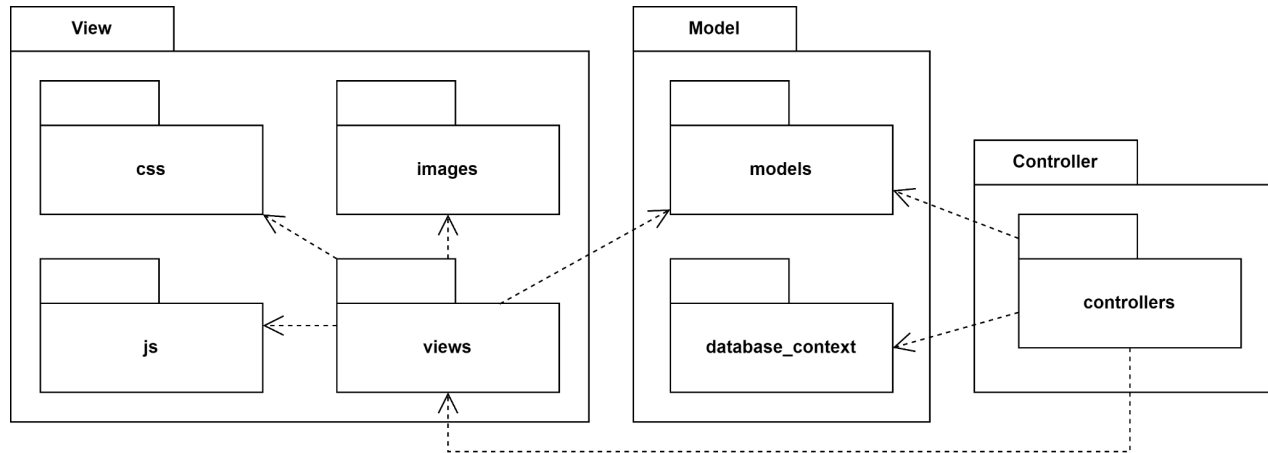
#	Package	Description
1	View	Contains infrastructure for the presentation of the web page.
2	Controller	Contains infrastructure for handling requests from users and generating views.
3	Model	Contains representations of underlying business objects and infrastructure for modifying the database.
4	css	Contains .css files used for styling web pages.
5	js	Contains .js files used for adding reactivity to web pages.
6	images	Contains images used by the site.
7	views	Contains Razor templates for generating pages.
8	controllers	Contains controllers that process user input and pass data onto the views.
9	models	Contains models which map business objects for use by the view and controller.
10	database_context	Contains infrastructure for the controller to access and modify the underlying database.

1.2. Database Design

1.2.1. Schema
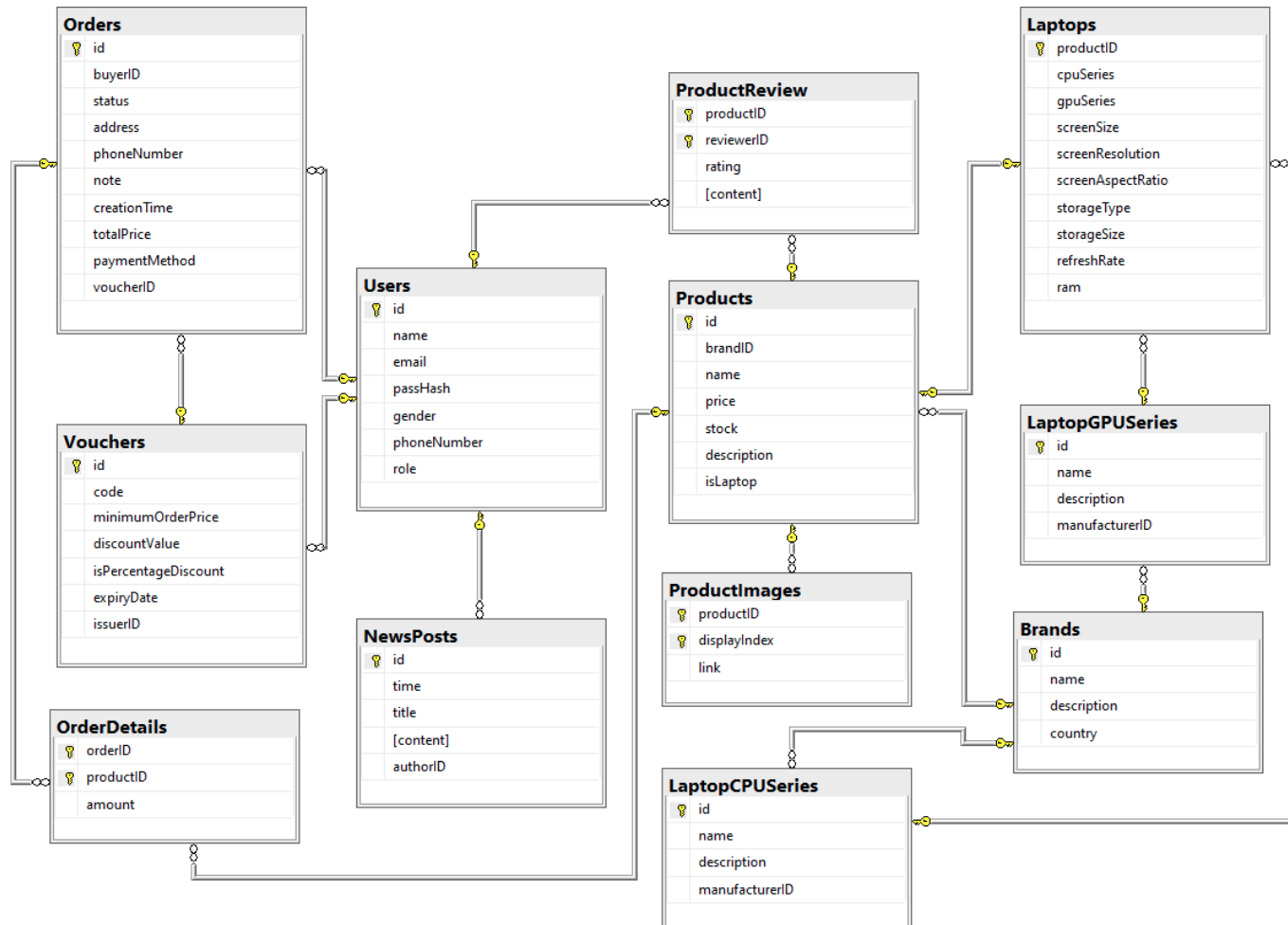
1.2.2. Table Descriptions

#	Table	Primary Key	Foreign Key	Description
1	Users	id		Stores user information
2	Brands	id		Stores information about brands
3	id		brandID	Stores product information
4	ProductImages	id	productID displayIndex	Stores images for products
5	LaptopCPUSeries	id	manufacturerID	Stores a collection of CPU series
6	LaptopGPUSeries	id	manufacturerID	Stores a collection of GPU series
7	Laptops	productID	productID cpuSeries gpuSeries	Stores laptop information.
8	Vouchers	id	issuerID	Stores voucher information.
9	Orders	id	buyerID voucherID	Stores order information
10	OrderDetails	orderID productID	orderID productID	Stores order to product mapping information
11	ProductReview	productID reviewerID	productID reviewerID	Stores product review information
12	NewsPosts	id	authorID	Stores news post information

2. Code Designs