

UML

CASH MANAGER

Team: 7

Lucas Boisbourdin

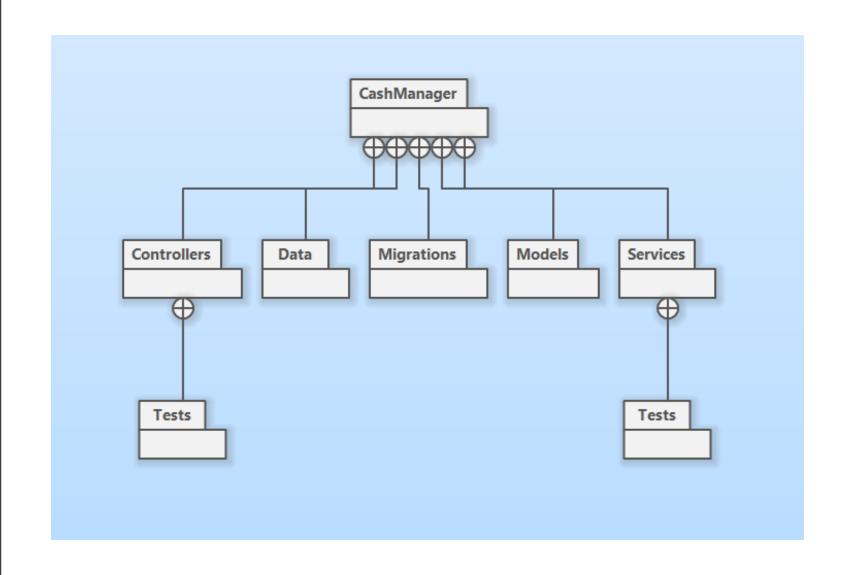
Bryan Lebar

Barthelmebs Alexis

Julien Barriere

UML -Server

Package Arrangement Classes Diagram Data Base Diagram Migration History Use Case Diagram Sequence Diagram **Deployement Diagram Activity Diagram**



Packages Arrangement

Startup

- + «property» Configuration: IConfiguration
- + «create» Startup (configuration : IConfiguration)
- + ConfigureServices (services : IServiceCollection)
- + Configure (app : IApplicationBuilder, env : IWebHost Environment)

Program

+ Main (args : string[])

Classes -CashManager

UserController

- _userService: IUserService {readOnly}
- productService: IProductService {readOnly}
- + «create» UserController (userService : IUserService, productService : IProductService)
- + Index (): JsonResult
- + Login (username : string, password : string): JsonResult
- + GetProductPrice (productReference : string): JsonResult
- + Pay (userId : int, ammount : float, isCreditCard : bool):
 JsonResult

{Annotation = HttpPost}

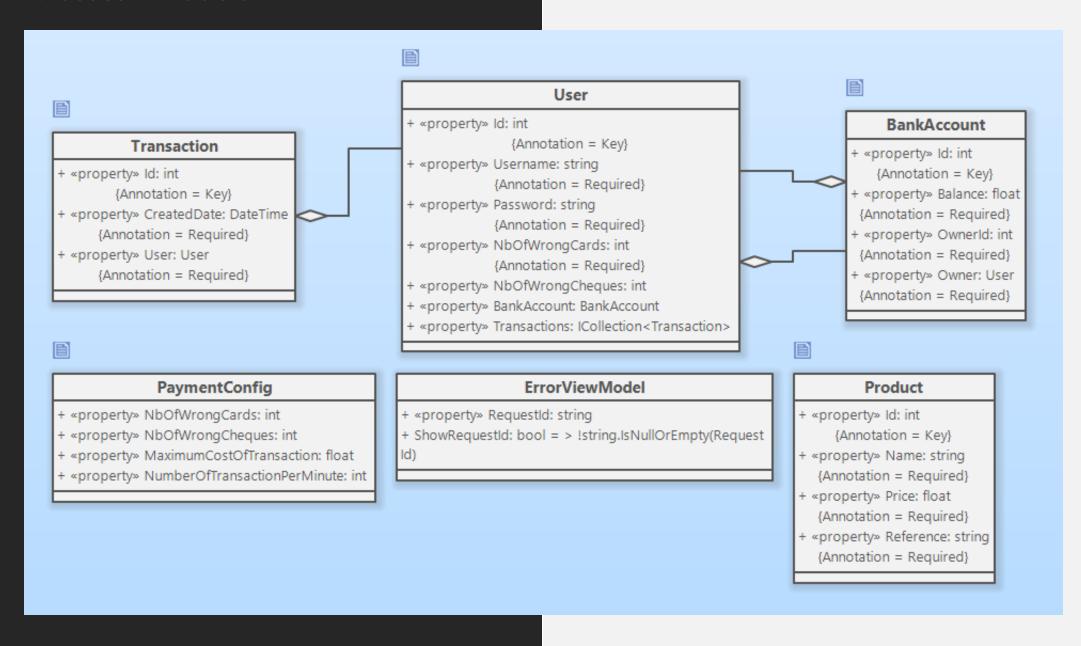
Classes – Controller -UserController

ApplicationDbContext

- + «property» Users: DbSet<User>
- + «property» Transactions: DbSet<Transaction>
- + «property» BankAccounts: DbSet<BankAccount>
- + «property» Products: DbSet<Product>
- + «create» ApplicationDbContext (options : DbContext
- Options < Application Db Context >)
- # OnModelCreating (modelBuilder : ModelBuilder)

Classes – Data -ApplicationDbContext

Classes - Models



«interface» **IUserService** + GetUserByLogins (username : string, password : string): + GetUserByld (userId : int): User + Pay (userId: int, ammount: float, isCreditCard: bool): Tuple < bool, string > UserService _context: ApplicationDbContext {readOnly} + «create» UserService (context : ApplicationDbContext) + GetUserByLogins (username : string, password : string): + GetUserByld (userId : int): User + Pay (userId : int, ammount : float, isCreditCard : bool): Tuple < bool, string > + CheckCreditCard (): bool + CheckCheque (): bool

ProductService + GetProductByReference (reference : string): Product ProductService - _context: ApplicationDbContext {readOnly} + «create» ProductService (context : ApplicationDb Context) + GetProductByReference (reference : string): Product

Classes -Service

UserControllerTest

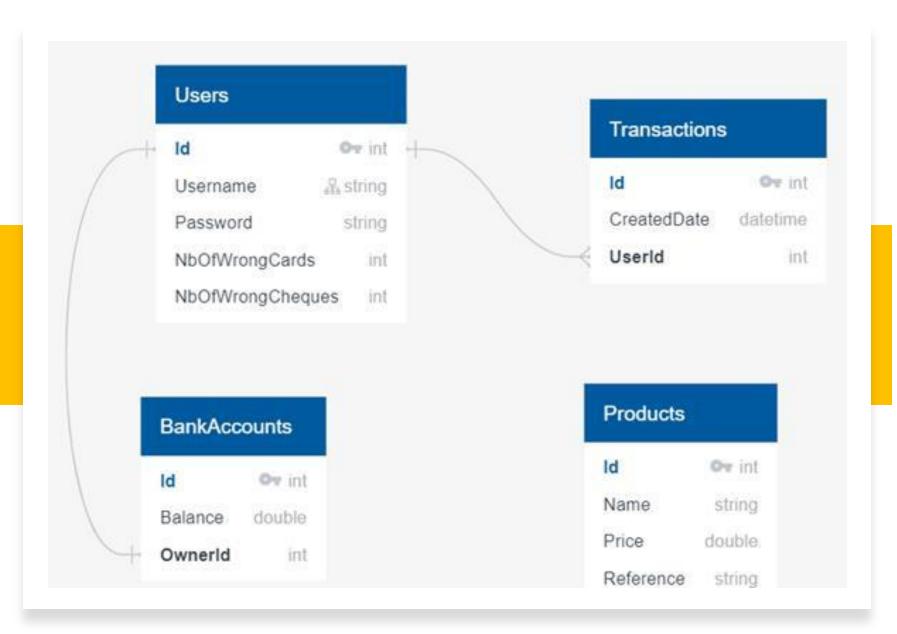
- + LoginTestSucces ()
- + LoginTestFailUser ()
- + LoginTestFailPass ()
- + GetProductPriceTestSucces ()
- + GetProductPriceTestFail ()
- + PayTestSuccess () {Annotation = TestMethod}
- + PayTestFailByGetUser () {Annotation = TestMethod}

Classes – Test – UserController Test

UserServiceTest

- + GetUserByLoginsTest ()
- + GetUserByLoginsTestFail () {Annotation = TestMethod()}
- + GetUserByIdTestSuccess ()
- + GetUserByIdTestFail ()
- + PayTestCreditCardSucess ()
- + PayTestChequeSucess ()
- + PayTestChequeFailAttempt ()
- + PayTestChequeFailFund ()
- + PayTestCreditCardFailAttempt ()
- + PayTestCreditCardFailFund () {Annotation = TestMethod}
- + PayTestFailTooManyTransactions () {Annotation = TestMethod()}
- + CheckCreditCardTest () {Annotation = TestMethod()}
- + CheckChequeTest ()
 {Annotation = TestMethod()}

Classe – Test-UserService Test



Database schéma

Migration1

Up (migrationBuilder : MigrationBuilder)

Down (migrationBuilder : MigrationBuilder)

InitMigration

BuildTargetModel (modelBuilder : ModelBuilder)

Migration1

BuildTargetModel (modelBuilder : ModelBuilder)

InitMigration

Up (migrationBuilder : MigrationBuilder)

Down (migrationBuilder : MigrationBuilder)

Migration2

Up (migrationBuilder : MigrationBuilder)

Down (migrationBuilder : MigrationBuilder)

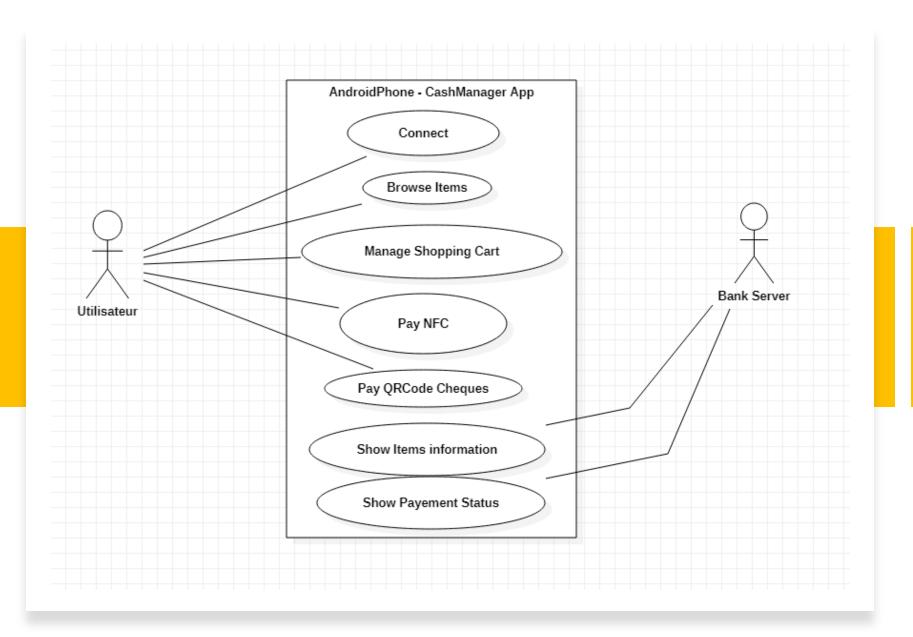
Migration2

BuildTargetModel (modelBuilder : ModelBuilder)

ApplicationDbContextModelSnapshot

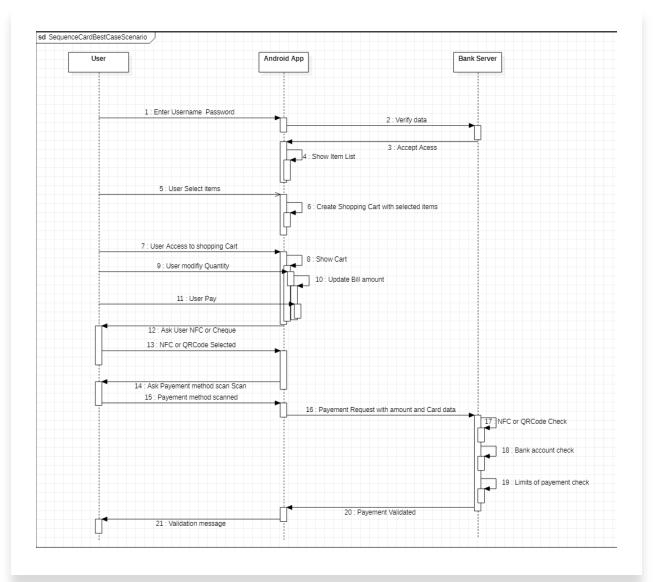
BuildModel (modelBuilder : ModelBuilder)

Migration History

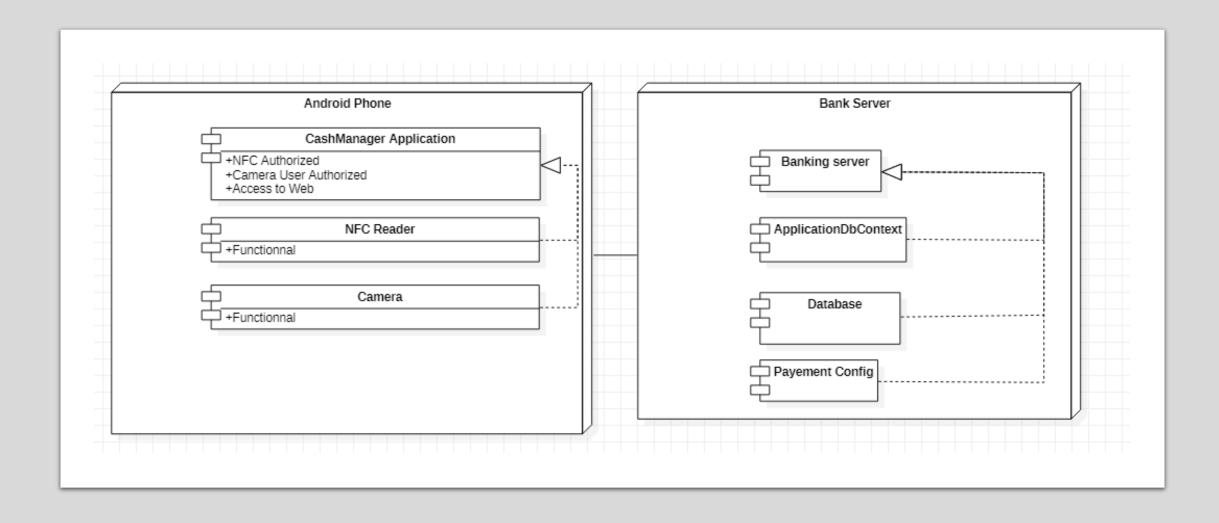


Use Case Diagram -App

Sequence Diagram – Best Case Scenario



Deployement Diagram



Activity Diagram

Trouvez le PDF ActivityDiag dans le fichier source