Project: MoneyService/HQ Currency currencyCode: String exhangeRate: double **Team Center** + Currency(String, double) + getExhangeRate(): double + getCurrencyCode(): String StatisticData **HQApp** + setExhangeRate(double): sites: Map<String, Site> data: Map<String, Map<String, Integer> > currencyMap: Map<String, Currency> site: String Responsibilities ~ AMOUNT LIMIT = 50 date: LocalDate + mergeData(StatisticData) <u>+ main()</u> + putToData(String, Map<String, Integer>) + readCurrencyConfigFile(String filename): map<String, Currency> parseInput(String): Currency + initializeDataFromStatistics(Site HQmenu(): int List<Statistic>, LocalDate, siteName: String LocalDate): List<StatisticData> - CLIapplication(): transactions: List<Transaction> createNewSite(): - readSiteConfig(): + Site(String siteName) Responsibilities + readTransactions(LocalDate, LocalDate) - writeNewSiteToConfigFile(String): Storing calculated statistics for each day + getSiteName(): String Responsibilities + getCompletedTransactions(): List<Transaction> The initializing file for MoneyService HQ Responsibilities 1..n Contains a list of completed transaction related to instance site. ReadTransaction should read transactions from files according «creates» to dates. The list should return to HQ App for statistics. «creates» **CLIHelper** Statistic «Value Type» currencyCodes: List<String> DISPLAY COLUMN WITH = 20 Transaction siteName: String <u>menuInput()</u> serialVersionUID: Long transactions: List<Transaction> readSites(): Set<Site> id: int PROFIT_MARGIN_RATE = 0.005 - readStartDay(): Optional<LocalDate> timeStamp: LocaleDateTime SELL RATE = 1.005readPeriod(): Optional<Period> currencyCode: String -BUY RATE = 0.995readCurrencyCodes(): List<String> amount: int - createEndDay(Optional<Period>, Optional<LocalDate>) + Statistic(List<Transaction>, List<String>, String) mode: TransactionMode - currencyFilter(List<String>): Predicate<Transaction> + getTotalTransactions(): Map<String. int> <u>- uniqueld: int</u> + getTotalTransactionsBuy(): Map<String, int> ~ headDisplayer(List<String> titles): String + Transaction(String, int, TransactionMode) ~ rowDisplayer(List<Map<String, Integer> >, String, List<String>): String + getTotalTransactionsSell(): Map<String, int> + getTimeStamp: LocalDateTime ~ displayTable(Set<Site>, LocalDate, Period, List<String>, DisplayOption) + getTotalAmount(String): Map<String. int> + getCurrencyCode: String ~ continueShowDisplayOptions(Optional<DisplayOption>): Boolean + getTotalAmountBuy(String): Map<String. int> + getAmount(): int ~ displayStatData(List<String>): BiConsumer<String, List<StatisticData»</p> + getTotalAmountSell(String): Map<String. int> + getMode: TransactionMode + getDiffCurrency(): Map<String. int> Responsibilities + getId(): int + getProfit(String): Map<String. int> + getAverageAmountBuy(String): Map<String, int> Responsibilities Command-line interface for HQ application. + getAverageAmountSell(String): Map<String, int> Represents a completed order. When order is Handles user inputs and renders data. + initializeFromSites(Set<Site>, LocalDate, LocalDate, List<String>): List<Statistic> validated, a transaction is created. Should present following criteria: Site, Period and Currency. Responsibilities An instance should calculate different values on transaction list according to currencies in currencyCodes. «Enum» TransactionMode BUY, SELL Responsibilities Defines if the Order/Transaction is a Sell or Buy type.