

.Net Practical Test

A prepaid cellphone company needs a service to control and review:

- Price per minute
- Recharge
- Minutes used
- Minutes left

The company has the following policies regarding recharges:

- If the recharged sum is greater than the average sums of all previous recharges, then a 10% bonus is awarded on the recharged sum.
- A 5% bonus derived from the average of the minimum recharges during the past week.
- Only one bonus can be granted per day.

The customer will only know the awarded bonus after recharging. Company employees may review and test promotions.

Minutes will be tracked in seconds. A warning must be raised if the customer has no more minutes left. Minutes left can't be less than 0.

Requirements

- Include the following diagrams for your solution: components, packages and deployment.
- Please explain the chosen architecture. How does it solve the problem? What compromises and assumptions did you make?
- Determine the type of security needed for this solution for each layer or component.
- Database E/R diagram and database initialization script.

What we are looking for

- REST services creation and consumption
- Coding standards
- Patterns
- Application structure
- Architecture

Delivery

- When you get this test, please inform the contact at Bitgray how much time will you take to complete and when will you submit it.
- Git repository access.
- (Optional) Deploy to a web server and include the URL.