



TIME OuT

TuO EMIT

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AGENDA

- OVERVIEW
- FUNCTIONAL SPECIFICATION
- ARCHITECTURE
- STORAGE
- RESILIENCY MODEL
- SECURITY MODEL
- HOSTED SERVICE
- TELEMETRY
- MONITORING

OVERVIEW

T^UO EMIT is a click-and-point game where you need to solve the puzzles in the shortest possible time. Check your ranking in the standings, get prizes, discover new levels, and don't forget about time.

FUNCTIONAL SPECIFICATION

- Functional Requirements
- Identity Management
- UML diagrams

FUNCTIONAL REQUIREMENTS

- Possibility to register an account
- Possibility to save game progress
- Possibility to continue previous game
- User personal statistics (account details, achievements system)
- Global leaderboard
- User-friendly interface

IDENTITY MANAGEMENT

Role	Description
Guest	User that have not authenticated yet. <ul style="list-style-type: none">• Can sign in/sign up;• Can just view global leaderboard.

IDENTITY MANAGEMENT

Role	Description
User	<p>User that have already authenticated.</p> <ul style="list-style-type: none">• Can view statistics (time played, scores and ect);• Can be displayed on leaderboard;

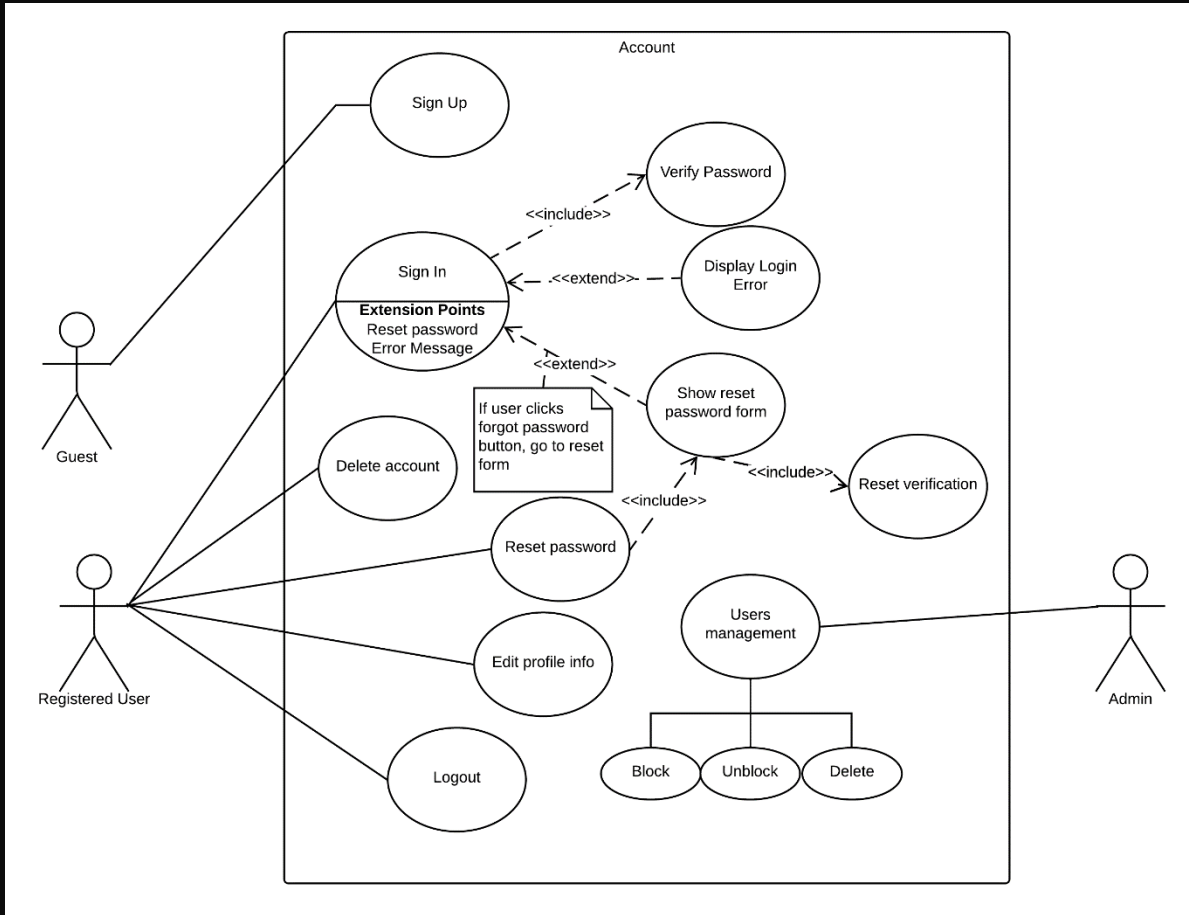
IDENTITY MANAGEMENT

User	<ul style="list-style-type: none">• Can play the game;• Can reset the progress;• Can add report that someone cheating;• Can sent request to delete account;• Can edit user info;• Can change password;• Can sign out.
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IDENTITY MANAGEMENT

Role	Description
Admin	<p>Superuser that have already authenticated.</p> <ul style="list-style-type: none">• Can block/unblock users;• Can see users reports;• Can reset users statistics;• Can delete accounts.

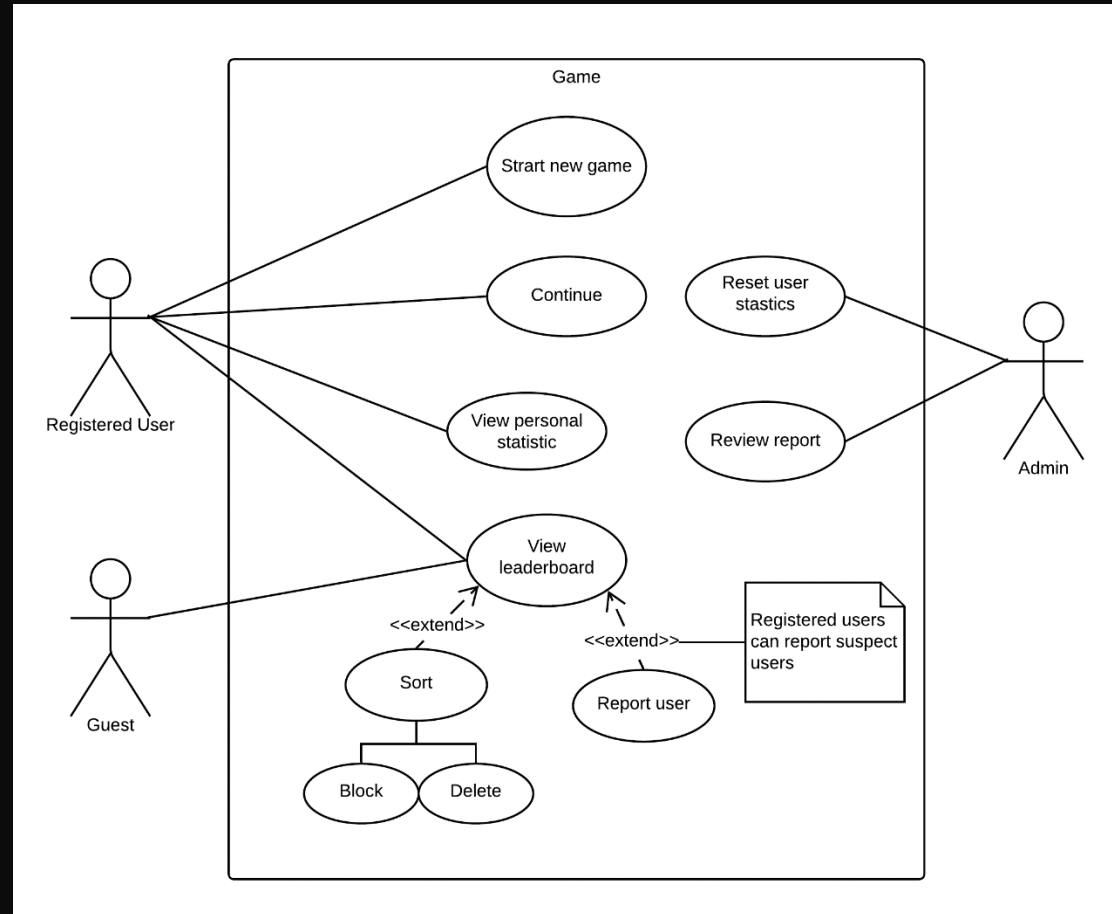
UML DIAGRAMS



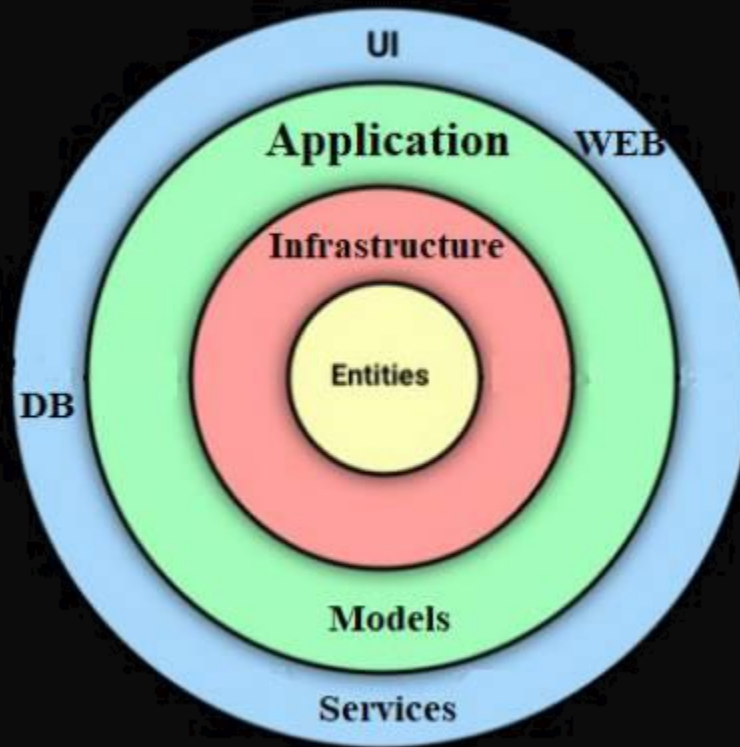
Account management
system usecase
diagram

UML DIAGRAMS

Game management system usecase diagram



ARCHITECTURE



STORAGE

Debug with MS SQL Server



Deployment with Azure SQL Storage

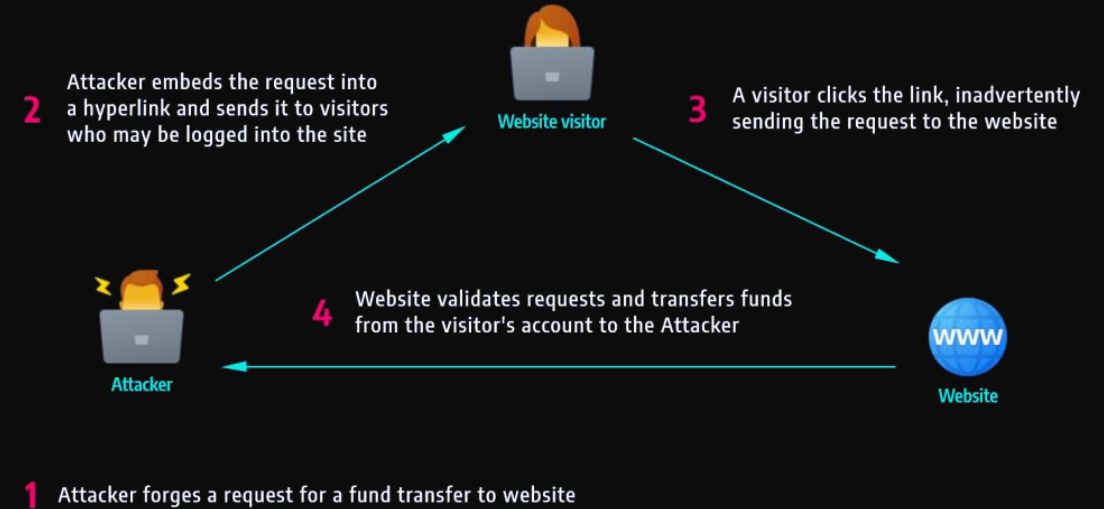
RESILIENCY MODEL

Using Resilient Entity Framework Core SQL Connections and Transactions



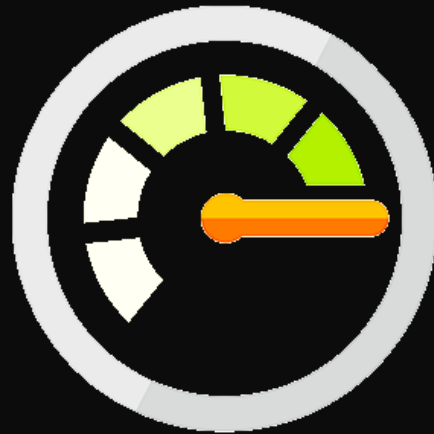
SECURITY MODEL

- Cross-Site Request Forgery (CSRF)
- Login secure
- Authentication and Authorization using `Microsoft.AspNetCore.Authentication` and `System.Security.Claims`
- Data encryption
- Cleaning cookies on logout



HOSTED SERVICE. TELEMETRY

Created hosted service to monitor app status and send mail in case of problems

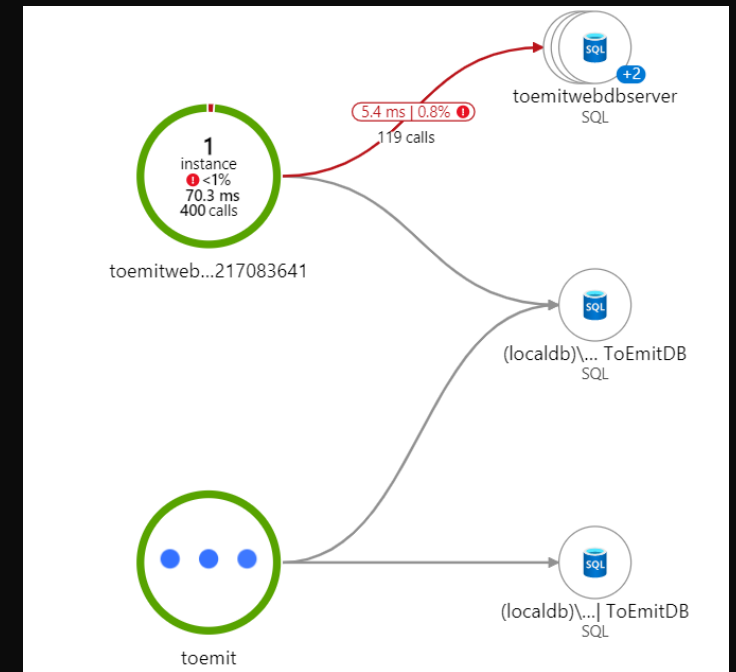
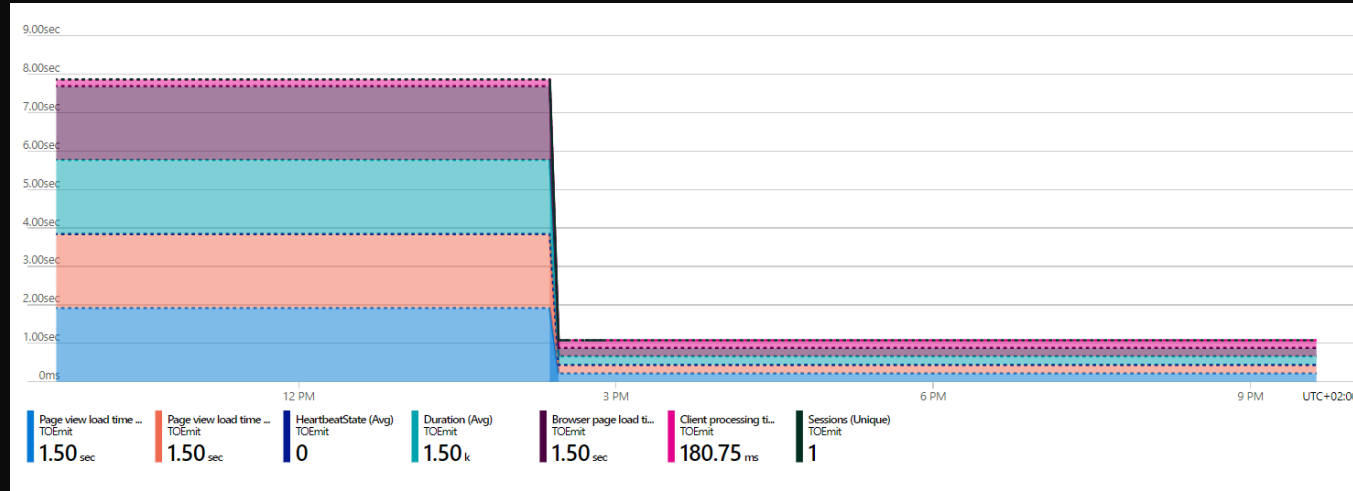


Azure Monitor



Application Insights

MONITORING



FINAL RESULT



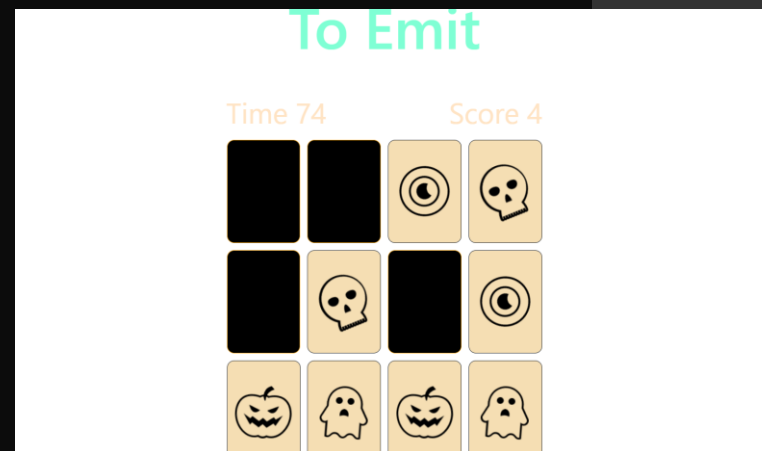
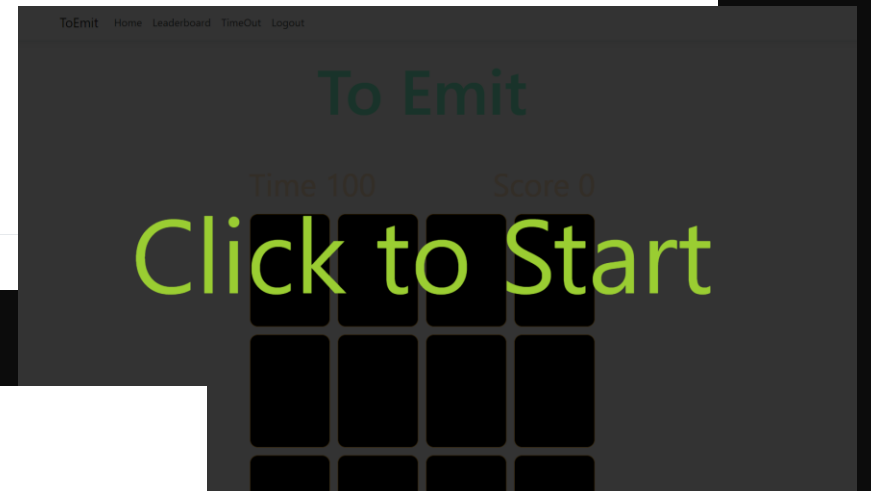
[WEBSITE](#)

ToEmit Home Leaderboard TimeOut Logout

Leaderboard

Username	Score
Nazar	792
Admin	560
notadmin	560
ANIGILYATOR3228	472
TimeOut	464

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THANKS FOR YOUR
ATTENTION!