

Team 1

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Product Report: Iteration 3

Team 1: Product Report Analysis

This Product Report is a definition and analysis summary of Team 1's ScavengeRUs project. Our significant and complete features include: GitHub integration, website deployment to Azure, a QR Scanner, Database deployment and successful connection to the project via entities and connection strings, and Bootstrap implementation for visual appeal. Incomplete or missing features include: complete database integration across all entities and tables, Email and SMS features do not exist, Log In function not integration, Scavenger Hunts do not exist, etc. This report will describe these functions, missing or not, to prepare the next team to pick up the reigns of Team 1's ScavengeRUs project.

Team 1 has made significant progress even though many features are missing--as will be explained in the next body paragraph. It is crucial to view what was completed positively and individually before concentrating on what is missing. GitHub integration into Visual Studio Community 2022, the IDE we decided to use, exacerbated teamwork and efficiency and made code compatibility instant between team members. This allowed us to create our QR scanner, the foundation of ScavengeRUs, using the ZXING library—an open-source barcode scanner. After these small accomplishments, we had the daunting task of publishing our project to a website which, after many hours of grief, was successfully deployed via Microsoft Azure. Azure's sleek GUI, clear documentation, and compatibility with .NET 6 allowed our project to be deployed to Azure directly from Visual Studio. From Azure, we also created a server-database association and connected it to our Visual Studio project via entities and connection strings. Bootstrap, another core part of our project, was created and successfully integrated into our project by replacing the existing HTML and CSS.

Again, some of the core features of this project are missing and or incomplete—mainly due to time constraints. Iterations for ScavengRUs are short two or three weeks of combinations of learning, coding, and testing. While it might seem like enough time to complete, the main problem we faced was learning new skills or languages and implementing them into unfamiliar project requirements. Project deliverables also required time investments to learn how to complete them. For example, most of us have not had to implement a server. Most coding we have done so far is local based, and at first, we were trying to implement a server that did not support .NET6 (AWS and Elastic Beanstalk). It took large amounts of time and failing to understand this single problem because .NET6 was relatively new when we worked on this project. Additionally, there was a significant lack of documentation. In order to polish some of the core elements we had, we would have had to spend less time on iteration deliverables for things such as specific UML diagrams and the PID. At the time of writing this report, most of our missing functions are due to the database not being fully integrated quickly enough—because of errors and poor documentation. If the database had been implemented much earlier, then missing functions would be slimmed down to almost none. As for database population, missing models, views, controllers, and it being the final iteration led to an unfinished project.

Should this project be passed on to a future team, then this report should give a general overview of what worked and did not, as well as what should be completed in the future. For advice on using our code and our processes: give ample time to fully understand our code and the database/website deployment. When working together, create short meetings to discuss what team members have accomplished during the sprint, not to schedule times to work together. Relying on working together as a team in a large group, not in pair-programming, did not work for us because of time conflicts across the group.

Completed:

- QR Scanner
- GitHub integration
- PID updated
- Trello Updated
- Server is deployed and working
- Database successfully created / Migration made – tables created
- Entities to connect the database to the code
- Bootstrap implemented / CSS
- UML/Network Diagrams
- Log in/sign up pages

Incomplete:

- Complete integration and population
- Email and SMS not implemented
- Log in not integrated
- Scavenger Hunts do not exist yet