# Mini-BRD

# Cloud Computing SFWRTECH 4CL3

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### Fourth Year

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# **ENGINEERING**

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## **PetPost**

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Keywords— **Mathematics** Education, Learning Progress, Key Concepts, Self-Reflection, Educational Insights, Professional Application, Mathematical Development, Competence, Scholarly Mathematical Foundations, Course Experience, Analytical Skills, Realworld Applications, Problem-solving, Integration of Knowledge, Dedication and Commitment, Collaborative Learning, Practicality of Mathematics, Future Growth and Development

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#### 1. Business Objective

The primary objective of this project is to enable the small animal rescue group to share information about adoptable pets online, facilitating visibility for potential adopters and streamlining volunteer efforts in promoting pet adoptions.

#### 2. Stakeholders

- **Shelter staff:** Responsible for overseeing operations and ensuring accurate pet information.
- **Volunteers:** Users who upload pet details and manage content updates.
- **Potential adopters:** End-users who browse the website to view available pets.

#### 3. FUNCTIONAL REQUIREMENTS

• Upload Pet Information and Image via Web Form: The system shall provide a simple web form allowing volunteers to input pet details, including name, breed,

- age, and a photo upload. Upon submission, the data shall be stored for display.
- **Display List of All Submitted Pets with Images:** The system shall feature a dedicated page that lists all currently available pets, displaying their name, breed, age, and associated images in a readable format.

#### 4. Non-Functional Requirements

- Simple and Low-Cost to Run: The solution shall prioritize minimal resource usage to ensure affordability, leveraging basic AWS services without advanced features.
- Publicly Accessible via a Browser: The website shall be accessible to any user with a standard web browser, requiring no special software or plugins.
- Easy to Update: Updates to pet information shall be straightforward, allowing volunteers to add or modify entries without technical expertise.

#### 5. Constraints

- Use Only EC2 and S3: The infrastructure shall be limited to Amazon EC2 for hosting the web application and Amazon S3 for storing images and data files.
- No Database or Authentication Required: The system shall not incorporate any database management system or user authentication mechanisms.

#### 6. ASSUMPTIONS

- All Uploads Are Done by Trusted Volunteers: It is assumed that only authorized volunteers will access the upload form, with no need for security checks.
- Data Can Be Stored in Flat Files or S3: Pet information may be persisted in simple flat files on EC2 or directly in S3 buckets, avoiding complex storage solutions.