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BSCS 3A
Software Engineering
Activity 7

“During the rainy season, the municipality launches BahaAlert, a mobile app where citizens can report street flooding, but sometimes the rescues respond late. Citizens submit flood reports, upload photos, and check if the barangay already responded. Some reports are serious (waist-deep floods), while others are exaggerated (ankle-level but people are already panicking). The system must handle verified reports and forward them to the right barangay office.”

1) Use Case description

Citizens use the mobile app, BahaAlert, to report street flooding by uploading supporting photos and verify whether the barangay has already responded. The system validates and categorizes reports by serious and non-critical and forward them to their respective barangay office.

1) Actor

- User (Citizens)
- Barangay officials

2) Main Flow

- a) Citizen opens the BahaAlert app
- b) Citizen create a new flood report
- c) Citizens enter the details about the flood such as location, depth, images, etc.
- d) Citizen submits the report
- e) The system receives the report, verifying and categorizing it.
- f) Once the report is validated, the system forwards the report to the appropriate barangay office

3) Extensions (if applicable)

- a) Barangay office can set a status such as “Pending” or “Done” when dealing with the flood
- b) Other citizens can view flood reports in other places so they can act accordingly
- c) Spam prevention
- d) User and Barangay official sign up