Institute of Systems Architecture, Chair of Computer Networks

PPchef

Adaption Concept Presentation

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Smoking tender pulled pork
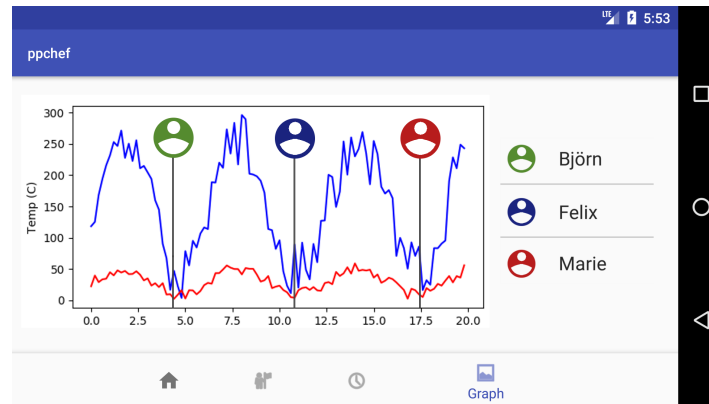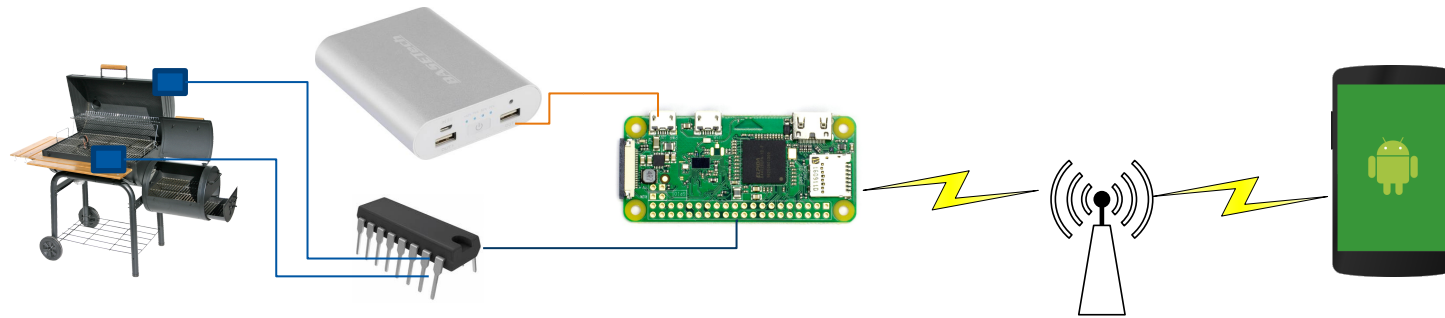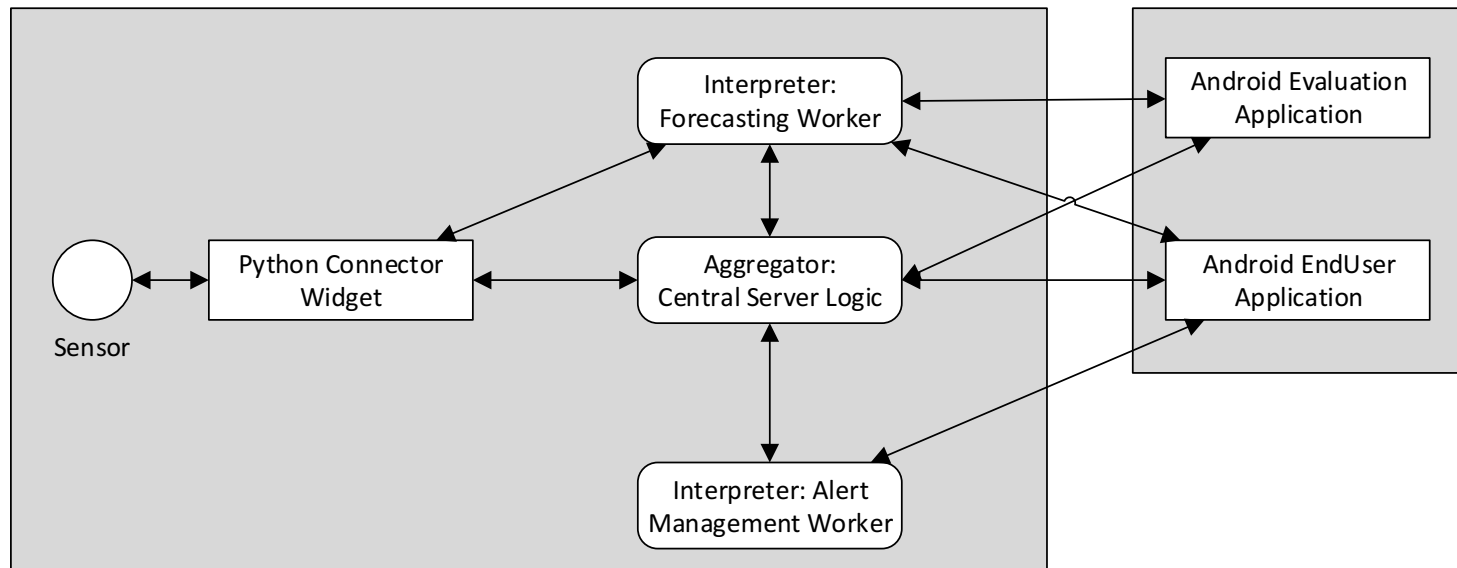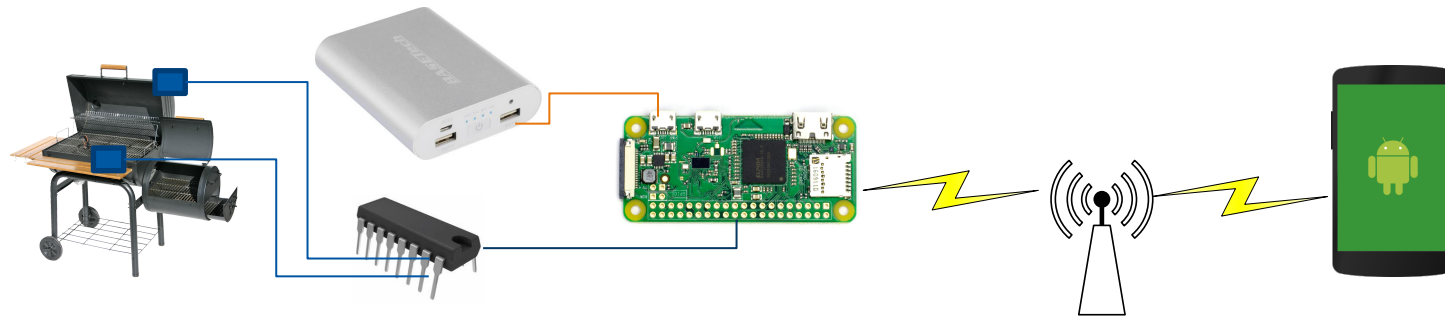

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PPchef - Context Adaptions

Context Provisioning Architecture

Context Adaption #1: Problem

- Connection might fail while sending an Alert
- User might not act on an Alert
- Missing re-heating once might ruin the whole roast
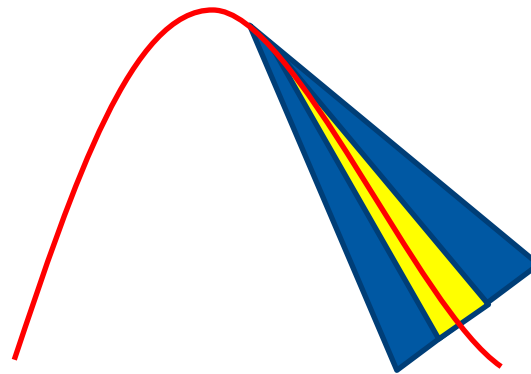
Context Adaption #1: Solution

- App will transmit a confirmation if it received a scheduled alarm
- Server will retransmit if no confirmation was received

- Users have to confirm a ringing alarm in their app
- If no confirmation is received in a specified time frame, the server will notify a different user
- If there is still no confirmation, resend the alarm to all users
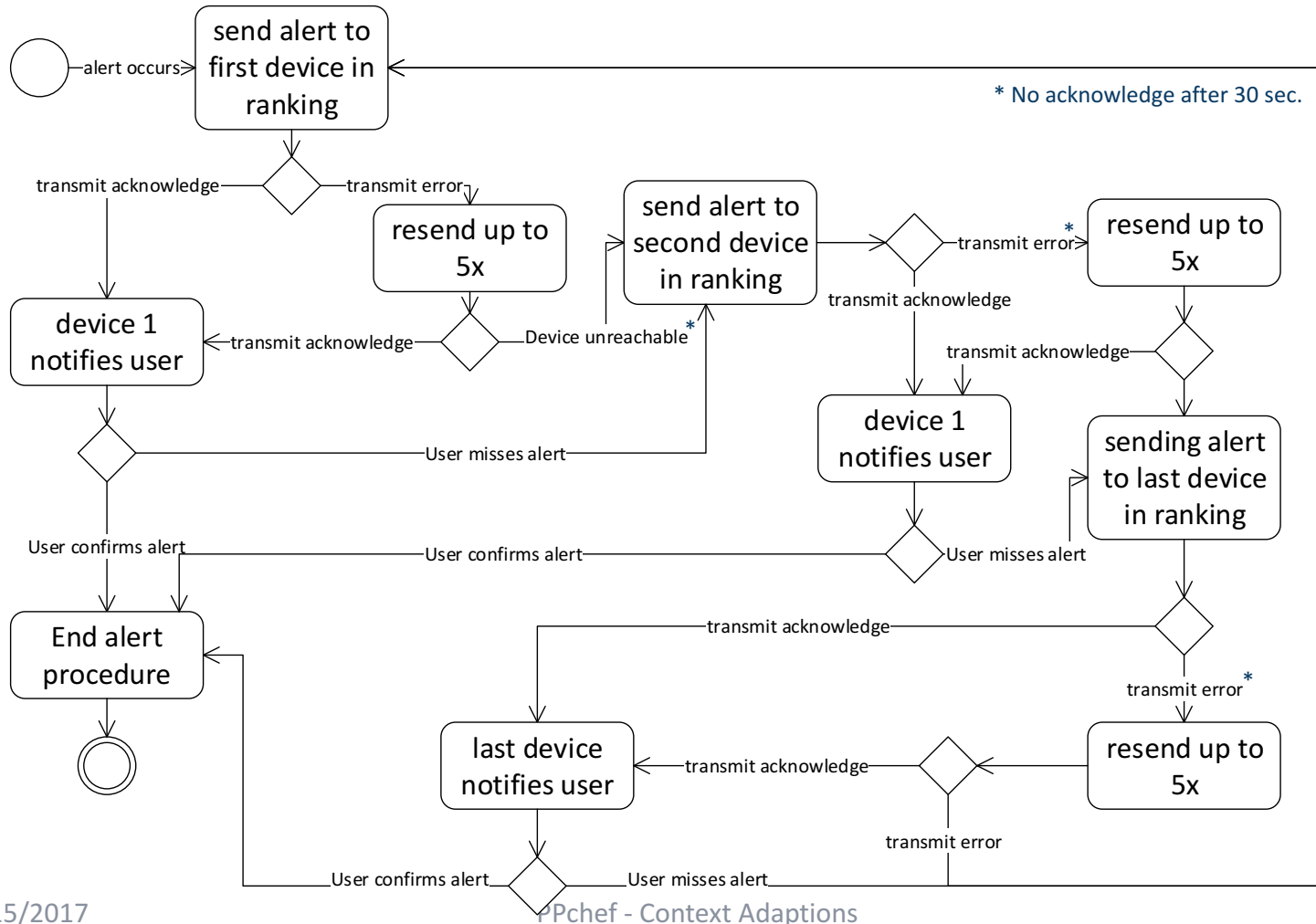
Context Adaption #2: Problem

- Server constantly measures the temperature, and evaluates the temperature curve against the predicted curve

- Temperature curve might be abnormal

  - Sensors fail

  - Lid blown/left open

Context Adaption #2: Solution

- Define two thresholds:
  - Normal deviation: update the prediction with new values
  - Abnormal deviation: send emergency alert to the user that has the current shift
  - Temperature curve follows prediction: do nothing

Alert fallback process

PPchef - Context Adaptions

Hands on Hardware