**IOT CA3**

**The Smart Coaster (Beta Release)**

A logo with coffee beans on it

Description automatically generated

Jamie Lawlor

Caitlin Maguire

Luke Hilliard

Shahzad Shabeer

**Version 1**

**December 2024**

**Table Of Contents**

1. [**SYSTEM ARCHITECTURE……...…………………………...…………………………... 3**](#SystemArchitecture)
2. [**DEPLOYED TO AWS…….………………………………………………….......................**](#AWSAlpha)

**2.1** [Custom Domain..…………………………………………………………………………..……….](#CustomDomain)

**2.2** [HTTPS……….…………………………………………………………………………..................](#AWS2)

**2.3** Available after submission………………………………………………………………………….

1. [**PUBNUB……………………...………………………….…………………………….…….**](#Pubnub)
   1. [Access Manager…………………………………………………………………………...….……](#Communication)
   2. SSL…………………………………………………………………………………………………
   3. Communication…………………………………………………………………………………….
2. [**SECURITY……………………...……………………….……………………………….….**](#Security)
   1. [Device………..……..……………………………………………………………………...………](#IoTDevice)
   2. [Communication Channels……………………...…………………………………………………..](#CommunicationChannels)
   3. [Database…………………………………………………………………………………...……….](#DatabaseSecurity)
   4. [Webserver…………………………………………………………………………………………](#ServerSecurity)
   5. [Data in flow……………………………………………………………………………………..](#DataInTransit)
3. **System Architecture**

**2. Deployed to AWS**

* 1. **Custom Domain – Jamie**

**2.2 HTTPS – Jamie**

**2.3 Available after Domain – Jamie**

**3. Pubnub**

**3.1 Access Manager – Jamie**

**3.2 SSL/TLS – Jamie**

**3.3 Communication – Jamie**

**4. Security**

**4.1 Device –**

* 1. **Communication channels – Jamie**
  2. **Database – Caitlin**

**4.4 Webserver – Jamie**

**4.5 Data in flow - Jamie**