

# Mama Money Frontend Technical Assessment

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## Overview

This technical assessment evaluates your ability to implement a push notification and content card inbox system using the Braze SDK in an Ionic/Angular mobile application.

## Flow

### 1. Homepage: Send custom event "INBOX\_MESSAGE\_TEST" via Braze SDK

- Implemented in `HomePage`
- Triggers Braze campaign to send push notification

### 2. Push Notification: Handle incoming notification

- `PushNotificationService` receives notification
- Check if notification type is 'inbox'
- Trigger content card fetch

### 3. Content Cards: Fetch and filter

- Fetch content cards from Braze
- Filter cards with type 'inbox'
- Update inbox state

### 4. UI Updates: Reflect new messages

- `InboxButtonComponent` shows unread indicator
- Animate notification icon
- Update inbox card list

### 5. Navigation: Handle card interactions

- Log card impressions when viewed
- Handle deep links for navigation
- Manage card dismissal

## Objective

Implement a fully functional Braze push notification and content card inbox system that demonstrates your understanding of mobile application development, state management, and third-party SDK integration.

## Requirements

### 1. Custom Event Implementation

- Implement the `sendInboxTestEvent` method in the homepage to trigger a custom "INBOX\_MESSAGE\_TEST" event using the `Braze SDK`
- This event will trigger a push notification from Braze containing a new content card

## 2. Push Notification Handling

- Complete the implementation of `PushNotificationService`
  - Implement the TODO in `pushNotificationReceived` listener to check if notification is from Braze (type === 'inbox' in extras) and refetch content cards from Braze

## 3. Inbox Implementation

- Build the `InboxComponent` according to the [Figma design](#):
  - Implement the inbox UI following the provided design system
  - Update inbox cards array when new content is available
  - Implement card dismissal functionality with confirmation dialog
  - Handle deep linking for card URLs

## Getting Started

1. `npm install`
2. Application can be built using `npm run build:android`
3. Application can run in live-reload using `npm run start:android`

## Notes

- A `.env` file has been supplied with credentials needed to access external resources
- You are only required to develop for Android
- The existing codebase includes guidance comments(Search codebase for TODO's), but you are encouraged to implement solutions that you believe best demonstrate your expertise
- Follow Angular best practices and maintain consistent code style

## Evaluation Criteria

- Code quality and organization
- Implementation of required features
- Understanding of Angular/Ionic patterns
- Integration with Braze SDK
- Mobile development best practices

## Additional Information

- [Braze Documentation](#)
- [Braze Content Card Documentation](#)
- [Ionic Documentation](#)

## Submission

Please submit your completed assessment as a Git repository with clear commit history showing your implementation process.