VERSION 0.1 DECEMBER 11, 2018

LAST UPDATED: 12/11/2018

STATUS: DRAFT

Specifications and Requirements

Seizure Tracking Mobile Application

JOSHUA PETERSON AND JAMES ECKLER
WESTERN MICHIGAN UNIVERSITY

Test Plan – Seizure Tracking Mobile Application

TABLE OF CONTENTS

Business REquirements	2
Technical Requirements	
Dependencies	
Assumptions	
Limitations	
Submission	
General assets	
Google play	4

BUSINESS REQUIREMENTS

The Pet Seizure Tracking mobile application will be a convenient and powerful tool for pet owners and their veterinarians to communicate, log, and diagnose medical events such as seizure episodes, medication usage, food consumption, sleep, and other symptoms the pet may display. The application will motivate owners to actively keep up with tracking their pet's activity using a simple and efficient interface to submit new logged events through a streamlined form system. The data sent by the pet owners will then be compiled and packaged into a digestible and statistic-oriented package that can be accessed by their veterinarians either directly through the app or externally.

- Pet owners can register multiple pets to their account with detailed information
 - Pet: name, breed, sex, age, weight, start time of seizures
 - o Medications: name, dose, frequency, start date, side effects
- Pet owners can connect with their vet through the application to link their data
- Pet owners can submit logs describing seizure events
 - Type (generalized or partial)
 - Duration, time of day
 - Severity (mild/moderate/severe)
 - Signs before or after
 - Medication given at time of seizure
 - Response to medication
- Pet owners can submit logs describing medication events
- Pet owners can submit video logs of seizure events
- Pet owners can submit logs describing other events such as feeding, sleep, and behavioral activity
- Veterinarians can connect to multiple pet owners and their pet's data within the application
- Veterinarians can view logs of pets through multiple views
 - o Calendar, statistical, graphic, formatted, raw
- Veterinarians can export the data of pet owner's pets

TECHNICAL REQUIREMENTS

- Android 4.4 KitKat or later
- iOS on 2nd release
- Google Firebase backend for database, servers, and analytics
- JUnit for unit testing
- Maintenance document for future maintaining
- Application should function for multiple years
- API/Services documentation

- Google developer account credentials
- Firebase account credentials

DEPENDENCIES

- Google Firebase
- Android Studio 3
- JDK
- SDK
- JUnit
- Gantt Chart
- Service/API documentation

ASSUMPTIONS

- Works on Android 4.4 KitKat and above
- Project can be delivered within deadline
- Project can be delivered with no increase in budget
- Assume 100+ users at launch for congestion

LIMITATIONS

- Limited budget
- 5-month deadline
- Limited staff
- Varying and increasing scope to work within
- Risk of new development platform

SUBMISSION

Mobile application requirements including technical assets and information required for app store submission. These requirements are designed to expedite the submission process and should be updated as needed according to changing requirements.

GENERAL ASSETS

- Icons of supported sizes (iOS: @1x @2x @3x images | Android: mdpi, hdpi, xhdpi, xxhdpi)
- Splash screens of supported sizes (iOS: @1x @2x @3x images | Android: mdpi, hdpi, xhdpi, xxhdpi)
- Screenshots in correct sizes, in required languages
- App descriptions in required languages
- Search keywords in required languages
- List of supported devices and OS versions

Test Plan – Seizure Tracking Mobile Application

GOOGLE PLAY

- Google Play Developer access
- Store listing name
- Paid/free
- Short description
- Full description
- App icon (512×512)
- Feature Graphic (1024×500)
- App type
- App category
- Content Rating
- Contact Email
- Privacy Policy
- Screenshots (correct sizes based on devices)