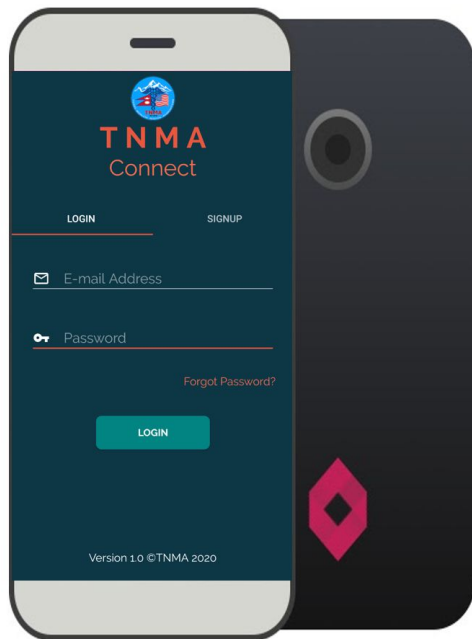# TNMA Mobile App Testing Documentation

April 29, 2020
Team Habits

Introduction

The main objective of the project is to create a fully functional android application for TNMA nonprofit organization, which will help provide extra exposure to organization and also provide functionalities to handle organizational tasks and business efficiently.
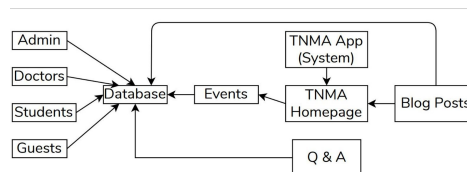
Requirements

★ User Signup, Login, and Verification
★ Questionnaire, Event Registration
★ Blog Posts, Q&A, Profile Activity
★ Performance and Safety

All of the above will be tested as stated in **"Testing Methodology"** on the next page.

System Structure

Roles

Two users of each role testing the end-to-end role specific flow. Roles are as follows: mentor and student

Testing Methodology

Step 1: Populating the database

The first step we did was fill the events, blogs, and donations feed with activity. Note: this test activity may not be representative of actual feeds that TNMA may use in the future.

Step 2: Determining a testing approach

Next, we decided how we want to approach testing. Since the TNMA app is based heavily on roles (mentors and students all perform different tasks within the app) we figured it was best to split testing based on roles. For every role that we have, we had two users test the entire app and all its features.

Step 3: Gathering testing volunteers

For our preliminary testing, we asked a total of four (4) UNT Computer Science students to test our app with the approach detailed above.

Step 4: Recording data

This can be found on the next page.

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Testing Results

Role 1: Student

➔ Test A: User Signup, Login, Verification, and Role Assignment (questionnaire)
- User A: Peyton B., peybrous7@gmail.com
    a. User Signup- pass   Result: successful, weak passwords not allowed
    b. User Login- pass   Result: successful
    c. Recover Password- pass   Result: successful
    d. User Verification- pass   Result: successful
    e. Role Assignment- pass   Result: successful- verified as student.
    Name can be a number- this can be fixed later on. (add error checking)
    Needs to sign out and sign in before viewing profile.
    f. Does any input cause app to crash?   No
- User B: Gustavo E., g4spinosa@gmail.com
    g. User Signup- pass   Result: successful, weak passwords not allowed
    h. User Login- pass   Result: successful
    i. Recover Password- pass   Result: successful
    j. User Verification- pass   Result: successful
    k. Role Assignment- pass   Result: successful- verified as student.
    Name can be a number- this can be fixed later on. (add error checking)
    Needs to sign out and sign in before viewing profile.
    l. Does any input cause app to crash?   No
➔ Test B: Event Registration
- User A: Peyton B., peybrous7@gmail.com
    m. View event- pass   Result: successful
    n. Join event- pass   Result: successful
    o. Verify joined event on profile- pass   Result: successful

            p.   Does any input cause app to crash?   No

- User B: Gustavo E., g4spinosa@gmail.com

            q.   View event- pass   Result: successful

            r.   Join event- pass   Result: successful

            s.   Verify joined event on profile- pass   Result: successful

            t.   Does any input cause app to crash?   No

➔ Test C: Blog Posts

- User A: Peyton B., peybrous7@gmail.com

            u.   View posts- pass   Result: successful

            v.   Create a post- pass   Result: successful

            w. Comment- pass   Result: successful

            x.   Does any input cause app to crash?   No

- User B: Gustavo E., g4spinosa@gmail.com

            y.   View posts- pass   Result: successful

            z.   Create a post- pass   Result: successful

           aa. Comment- pass   Result: successful

           bb. Does any input cause app to crash?   No

➔ Test D: Q/A and messaging

- User A: Peyton B., peybrous7@gmail.com

           cc. Direct messaging- pass   Result: successful- assigned with

               mentor

           dd. Ask a Question- pass   Result: successful

           ee. View Questions Asked- pass   Result: successful

- User B: Gustavo E., g4spinosa@gmail.com

            ff. Direct messaging- pass   Result: successful- assigned with

               mentor

           gg. Ask a Question- pass   Result: successful

           hh. View Questions Asked- pass   Result: successful

➔ Test E: Profile Activity

- User A: Peyton B., peybrous7@gmail.com

            ii. Edit Information   Result: successful

            jj. Edit Avatar   Result: successful

           kk. Have correct "role" icons load   Result: successful

        ll.   View lists that only the user joined   Result: successful

        mm.   Does any input cause app to crash?   No

-    User B: Gustavo E., g4spinosa@gmail.com

        nn. Edit Information   Result: successful

        oo. Edit Avatar   Result: successful

        pp. Have correct "role" icons load   Result: successful

        qq. View lists that only the user joined   Result: successful

        rr. Does any input cause app to crash?   No

Role 2: Mentor

➔ Test A: User Signup, Login, Verification, and Role Assignment (questionnaire)

-    User A: Abhi R., abhiroseb2@gmail.com

        ss. User Signup- pass   Result: successful, weak passwords not allowed

        tt. User Login- pass   Result: successful

        uu. Recover Password- pass   Result: successful

        vv. User Verification- pass   Result: successful

        ww.   Role Assignment- pass   Result: successful- verified as student. Name can be a number- this can be fixed later on. (add error checking) Needs to sign out and sign in before viewing profile.

        xx. Does any input cause app to crash?   No

-    User B: Garrett G., garrettgu77@gmail.com

        yy. User Signup- pass   Result: successful, weak passwords not allowed

        zz. User Login- pass   Result: successful

        aaa.   Recover Password- pass   Result: successful

        bbb.   User Verification- pass   Result: successful

        ccc.   Role Assignment- pass   Result: successful- verified as student. Name can be a number- this can be fixed later on. (add error checking) Needs to sign out and sign in before viewing profile.

        ddd.   Does any input cause app to crash?   No

➔ Test B: Event Registration

- User A: Abhi R., abhiroseb2@gmail.com
    - eee.   View event- pass   Result: successful
    - fff. Join event- pass   Result: successful
    - ggg.   Verify joined event on profile- pass   Result: successful
    - hhh.   Does any input cause app to crash?   No
- User B: Garrett G., garrettgu77@gmail.com
    - iii.   View event- pass   Result: successful
    - jjj.   Join event- pass   Result: successful
    - kkk.   Verify joined event on profile- pass   Result: successful
    - lll.   Does any input cause app to crash?   No

➜ Test C: Blog Posts
- User A: Abhi R., abhiroseb2@gmail.com
    - mmm. View posts- pass   Result: successful
    - nnn.   Create a post- pass   Result: successful
    - ooo.   Comment- pass   Result: successful
    - ppp.   Does any input cause app to crash?   No
- User B: Garrett G., garrettgu77@gmail.com
    - qqq.   View posts- pass   Result: successful
    - rrr. Create a post- pass   Result: successful
    - sss.   Comment- pass   Result: successful
    - ttt. Does any input cause app to crash?   No

➜ Test D: Q/A and messaging
- User A: Abhi R., abhiroseb2@gmail.com
    - uuu.   Direct messaging- pass   Result: successful- assigned with student
    - vvv.   Ask/Answer a Question- pass   Result: successful
    - www.   View Questions Asked- pass   Result: successful
- User B: Garrett G., garrettgu77@gmail.com
    - xxx.   Direct messaging- pass   Result: successful- assigned with student
    - yyy.   Ask/Answer a Question- pass   Result: successful
    - zzz.   View Questions Asked- pass   Result: successful

➔ Test E: Profile Activity

- User A: Abhi R., abhiroseb2@gmail.com

    aaaa.   Edit Information   Result: successful

    bbbb.   Edit Avatar   Result: successful

    cccc.   Have correct "role" icons load   Result: successful-mentor

    dddd.   View lists that only the user joined   Result: successful

    eeee.   Does any input cause app to crash?   No

- User B: Garrett G., garrettgu77@gmail.com

    ffff.   Edit Information   Result: successful

    gggg.   Edit Avatar   Result: successful

    hhhh.   Have correct "role" icons load   Result:
successful-mentor

    iiii. View lists that only the user joined   Result: successful

    jjjj. Does any input cause app to crash?   No

Testing Conclusion

While our app has not yet endured thorough testing, it is stable, provides all of the functionalities as stated in the requirements, and doesn't freeze or crash. Some error checking could be used to ensure that inputs must be in specific format.

This document does not cover performance or security testing. This will be covered at a later time.