

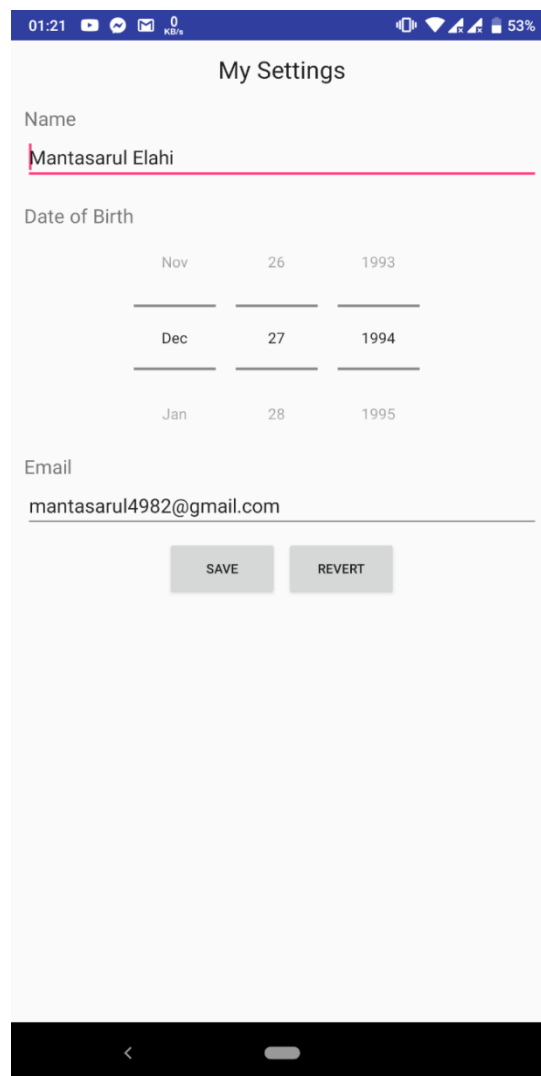
# CSE427 Project 1 Proposal

## Unit Testing on Email Pattern & Shared Preferences Validation in Android

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# Topic

For Project-1 we are going to work with a form segment of an Android based application. A fragment of a big application (User information setting part) would be tested. User would be able to provide with their name, date of birth and valid email address. Pressing the save button would check validity of each individual input before saving. The information can be reverted as well. Though the scope could be big, in this phase we will be analyzing and writing test cases on EmailValidator and SharedPreferencesHelper java classes only.



The screenshot shows an Android application interface titled "My Settings". It contains three input fields: "Name" with the value "Mantasarul Elahi", "Date of Birth" with a date picker showing "Nov 26 1993", and "Email" with the value "mantasarul4982@gmail.com". Below the fields are two buttons: "SAVE" and "REVERT". The status bar at the top shows the time "01:21" and battery level "53%".

Field	Value
Name	Mantasarul Elahi
Date of Birth	Nov 26 1993
Email	mantasarul4982@gmail.com

# Objectives

- Write unit test cases on the email and shared preferences class.
- Implementation of unit testing of individual Java Methods.
- Developing test classes covering as many test case scenarios as possible.
- Detections of exceptions.
- Module Testing.
- Identification of possible existing bugs after unit testing.