

Application Overview:

eCards application replaces the physical cards and transform them into digital cards. The account holder can login to the application using his customer id and password. The application contains Dashboard, card list and QR code pages. Upon login to the system, User can see his details name, phone number and email id along with user image on the dashboard. It also displays the types of the cards that the user holds with the corresponding customer id. All cards are grouped under the type of the card. When User taps on any group of the card, the application directs card list page, that lists all cards in carousal view. Each card displays card number, expiry details, available balance and cvv number information. While tapping on card, it generates QR Code that securely stores cards information. User can use this QR Code for any transaction.

Set-up for application:

This is a iOS applicaton developed in Xcode.

Download Xcode in max OS using the following link

<https://developer.apple.com/xcode/download/>

After installing the application, unzip eCards.Zip file and open ecards.xcode file.

Application code opens in Xcode tool.

Select iphone 5 from active scheme appearing in left top corner.

You can run the application using command+R or go to Product-> Run or using play button appearing in the top left corner.

IOS application opens in IOS simulator, please enter customer id and password

Customer id : 543200

Password : wells@123

You can use the application as mentioned in application overview.

Running Test Cases: -

Open eCardsTest Folder in left navigator pane, you see 5 .m files in the folder each relates to the requirements mentioned in Tarantula tool.

Long press the RUN button until you see Test option, Select Test option to run the test cases
Now open the each .m file in eCardsTest and check the tick marks indicates passing of test cases.

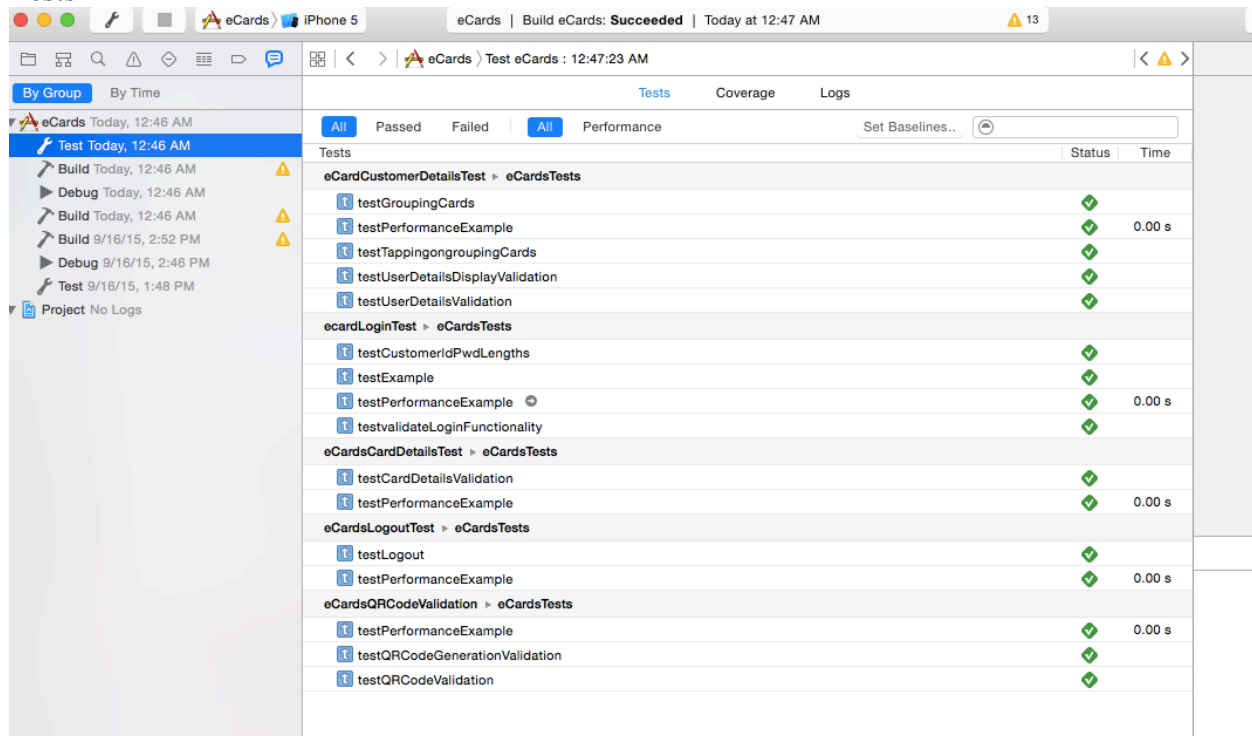
Structural Coverage

After running the test cases, go to show report navigator(8th option under Run button in top left corner)

Under eCards select Test today, it shows all test report in the right pane.

Select Coverage (2nd option) in right pane to see the structural coverage as well. The graphical gives the coverage per each file.

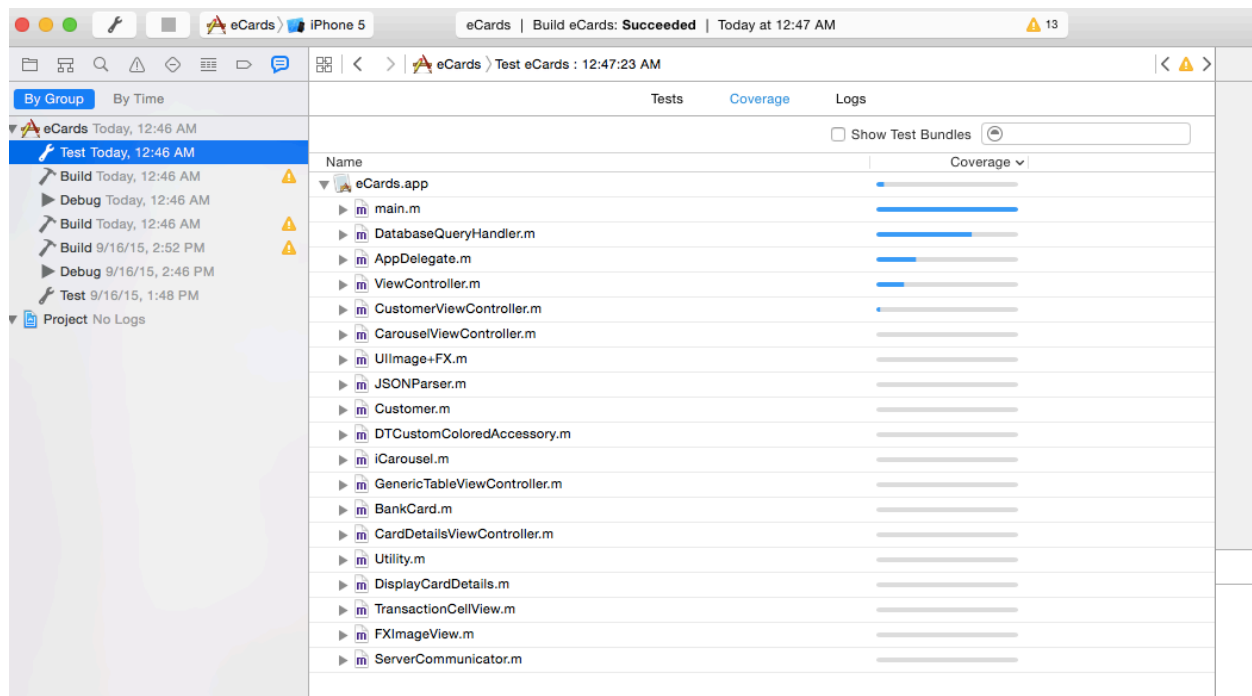
Tests



The screenshot shows the Xcode interface with the 'Tests' pane selected. The left sidebar lists build and test events. The main pane displays a table of test results for 'eCardsTests'.

Test Name	Status	Time
eCardCustomerDetailsTest > eCardsTests		
testGroupingCards	✓	
testPerformanceExample	✓	0.00 s
testTappingongroupingCards	✓	
testUserDetailsDisplayValidation	✓	
testUserDetailsValidation	✓	
ecardLoginTest > eCardsTests		
testCustomerIdPwdLengths	✓	
testExample	✓	
testPerformanceExample	✓	0.00 s
testvalidateLoginFunctionality	✓	
eCardsCardDetailsTest > eCardsTests		
testCardDetailsValidation	✓	
testPerformanceExample	✓	0.00 s
eCardsLogoutTest > eCardsTests		
testLogout	✓	
testPerformanceExample	✓	0.00 s
eCardsQRCodeValidation > eCardsTests		
testPerformanceExample	✓	0.00 s
testQRCodeGenerationValidation	✓	
testQRCodeValidation	✓	

structural coverage



The screenshot shows the Xcode interface with the 'Coverage' pane selected. The left sidebar lists build and test events. The main pane displays a list of files with their corresponding coverage bars.

Name	Coverage
eCards.app	
main.m	100%
DatabaseQueryHandler.m	100%
AppDelegate.m	100%
ViewController.m	100%
CustomerViewController.m	100%
CarouselViewController.m	100%
UIImage+FX.m	100%
JSONParser.m	100%
Customer.m	100%
DTCustomColoredAccessory.m	100%
iCarousel.m	100%
GenericTableViewController.m	100%
BankCard.m	100%
CardDetailsViewController.m	100%
Utility.m	100%
DisplayCardDetails.m	100%
TransactionCellView.m	100%
FXImageView.m	100%
ServerCommunicator.m	100%