**Pre-Requisites**

Please download the Yakindu tool as per your OS

<https://www.itemis.com/en/yakindu/state-machine/>

Please follow procedure and configuration as per the Yakindu Guideline document

**Problem statement:**

Design a State Machine to Handle the screen transition logic of basic Media Application

**Details :**

1. There are 2 screens. now\_play\_screen and browse\_view\_screen.
2. now\_play\_screen comes when user raises event evg\_media\_launch from home screen.
3. from now\_play\_screen, you can go to browse\_view\_screen.
4. browse\_view\_screen contains tabs for different browsing views (like folder\_view, genre, singer, album etc.).
5. User can set the current song as favorite from now\_play\_screen and set\_favorite\_popup will get displayed.
6. Implement back transition to get to previous screen OR to cancel the popup.

**Expectation:**

1. Design state machine to show transition between multiple screens and popups
2. Use various states as required (e.g. consider all screens as states. You can take browse\_view\_screen as composite state and create substates for browsing views.)
3. Define multiple required events (e.g. lauch\_media\_playback\_screen) and OCB's(e.g. DisplayScreen(),DisplayPopup(), RemoveScreen(),RemovePopup()) etc.
4. Implement history connector for browse\_view composite state.
5. Generate the Code for the SCT and implement the OCB's in a class.
6. Print Log's in the implemented OCB's to ensure the execution.
7. Write a Menu-Driven Program to Raise various Events to State Chart.