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    graph TD
        subgraph "Flow for Project ReOpen or Initial Load"
            START([START]) --> ProjectLoad[/Project Load/]
            ProjectLoad --> ReadRefs[Read References of Cx Rx]
        end

        ReadRefs --> AGSettings[(AG Settings)]
        AGSettings -- "Update History Based on State change" --> RefHistory[Reference History Base / delete]
        RefHistory --> UpdateState[Update State of Corresponding Resource Panel section eg : state CO RO]

        UpdateState --> CxR1Exist{Cx R1 Exist}
        CxR1Exist -- No --> UpdateState
        CxR1Exist -- Yes --> CxR1Save[Cx R1 Reference Save to Cx RO in history and delete reference of Cx R1]
        CxR1Save --> UpdateState

        UpdateState --> AddingNew[Adding NEW Resource]
        AddingNew -- "Resource Data Saving" --> LoadModule[Load a Module for Cx Rx]
        LoadModule -- "Hide for Cx Rx" --> AddingNew
        LoadModule -- "Show for Cx Rx" --> DeleteDownload[Delete Downloaded Resource from Resource Selector]
        DeleteDownload -- "Resource Data Updating with "" (empty)"" values" --> UpdateState

        UpdateState --> ChangingResource[Changing Resource]
        ChangingResource -- "Resource Data Updating" --> UpdateState

        UpdateState --> RemovingResource[/Removing Resource Pane/]
        RemovingResource -- "Cx Rx" --> CxR1Exist

        RemovingResource -- "Cx" --> ShowSplit[SHOW SPLIT BUTTON for Column C]
        ShowSplit --> FlowLayoutChange

        subgraph "Flow for Layout Change"
            LayoutBtn[LAYOUT BTN] --> LayoutCount{Layout count}
            LayoutCount -- "count == 1" --> NoRef[No Reference Column Only Editor  
if count > 3 set layout = 1]
            LayoutCount -- "count 2 or 3" --> RefCol2[Display REFERENCE COLUMN 2 with  
row = 0 enable split row btn Load a Module Btn]
            LayoutCount -- "count == 5" --> RefCol1[Display REFERENCE COLUMN 1 with  
row = 0 enable split row btn Load a Module Btn]
            RefCol2 -- "C = 2" --> SplitCol[SPLIT COLUMN BTN]
            RefCol1 -- "C = 3" --> SplitCol
            SplitCol --> HideBtn[HIDE BUTTON for Column C]
            HideBtn --> FlowLayoutChange
        end
    
```