California State University Long Beach

College of Engineering

Computer Engineering Computer Science Department

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Sixfold Design Document

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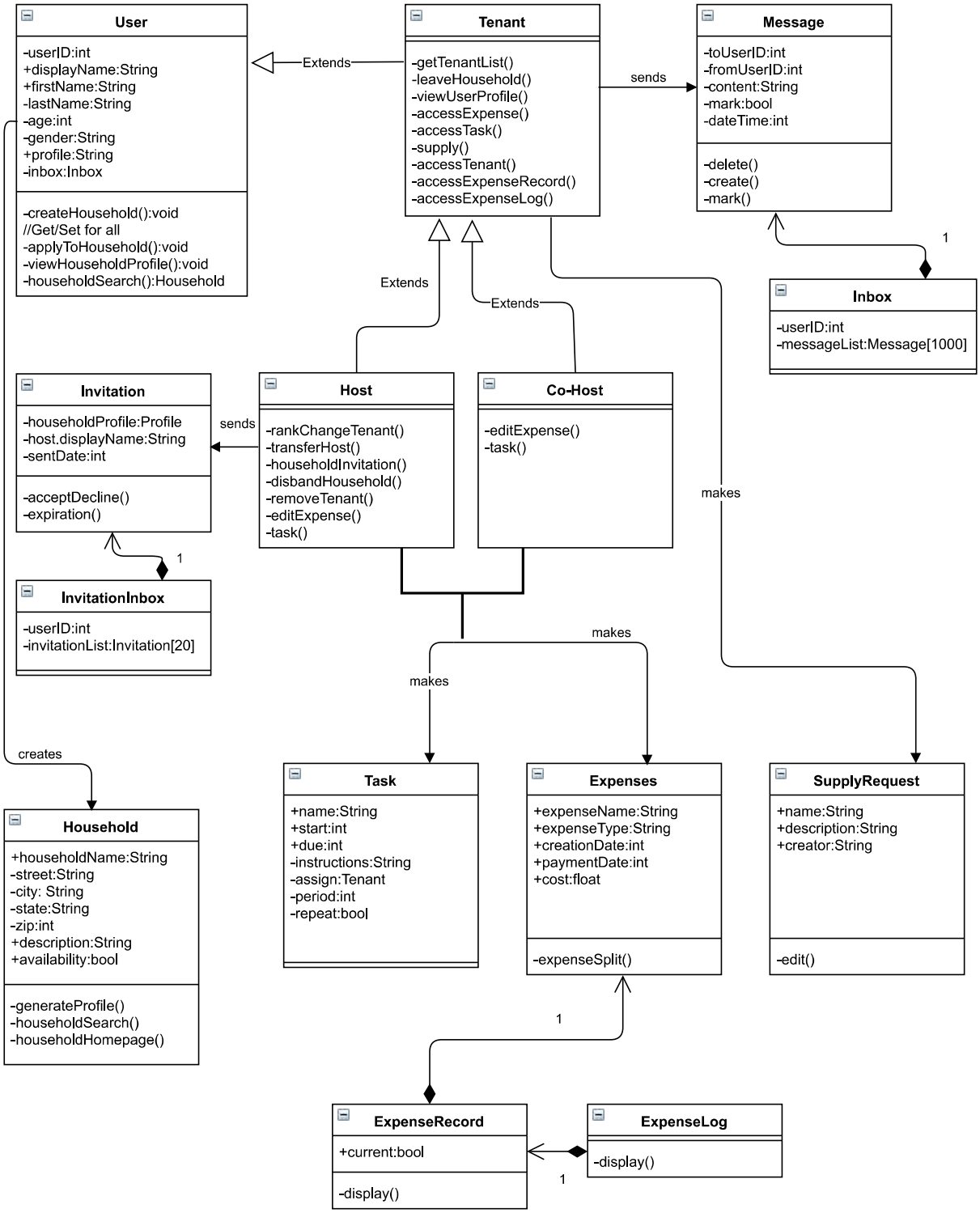
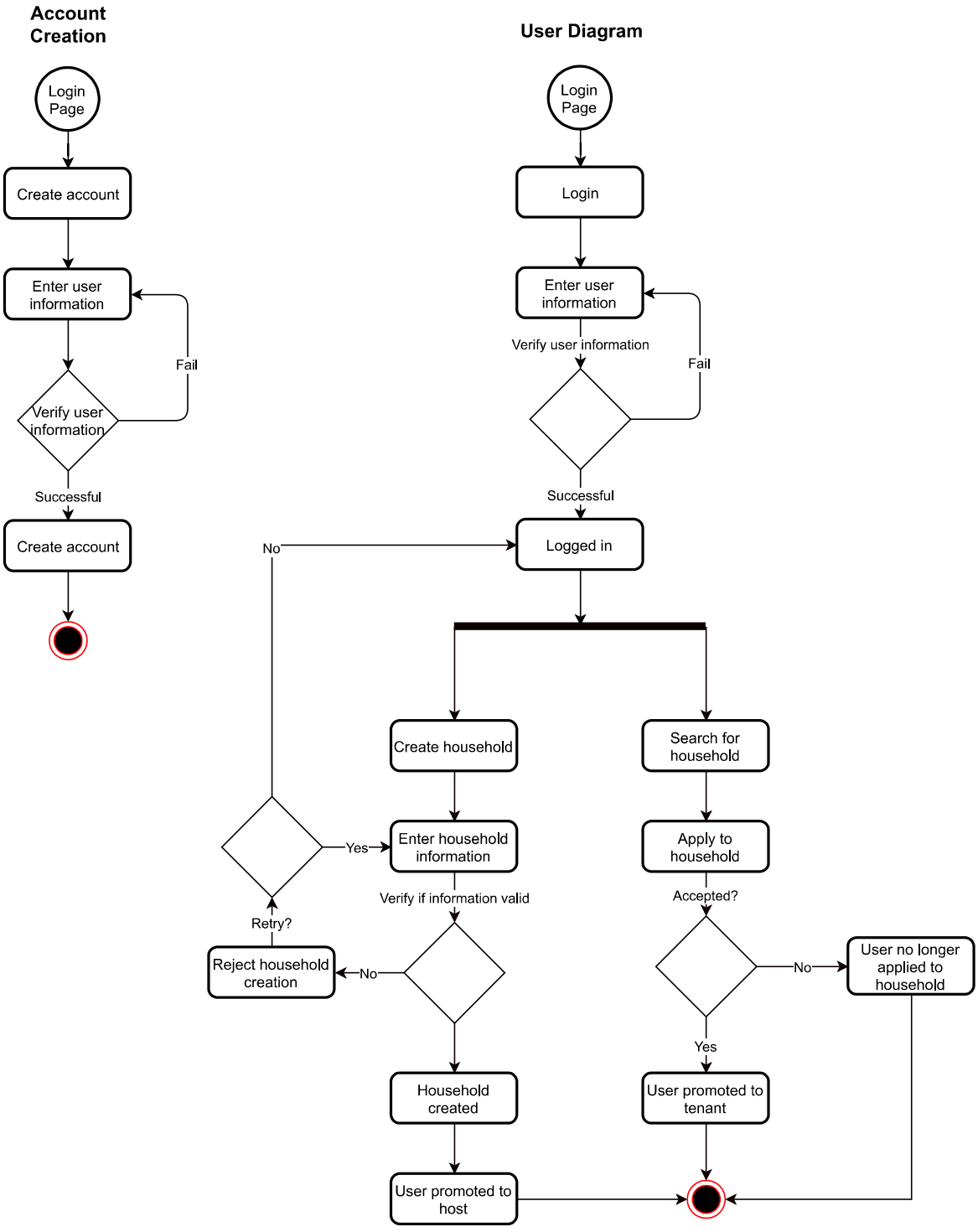
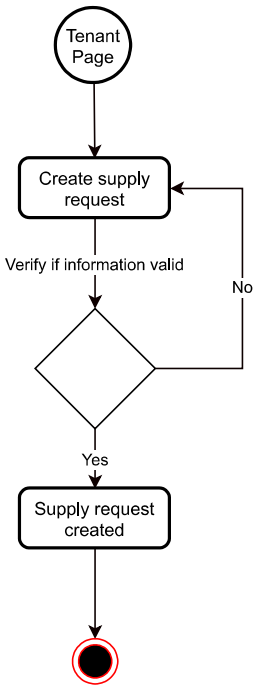
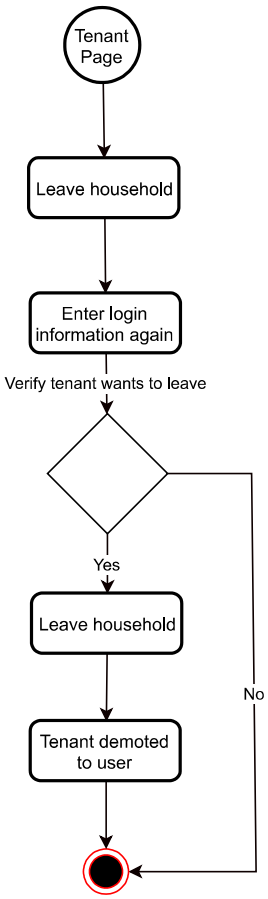
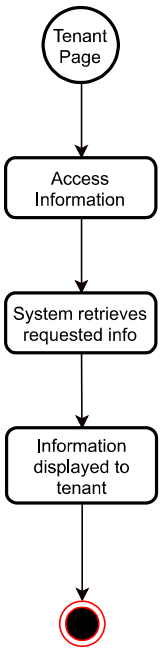

User
-userID:int
+displayName:String
+firstName:String
-lastName:String
-age:int
-gender:String
+profile:String
-inbox:Inbox
-createHousehold():void
//Get/Set for all
-applyToHousehold():void
-viewHouseholdProfile():void
-householdSearch():Household
Extends
Tenant
-getTenantList()
-leaveHousehold()
-viewUserProfile()
-accessExpense()
-accessTask()
-supply()
-accessTenant()
-accessExpenseRecord()
-accessExpenseLog()
sends
Message
-toUserID:int
-fromUserID:int
-content:String
-mark:bool
-dateTime:int
-delete()
-create()
-mark()
1
Inbox
-userID:int
-messageList:Message[1000]
Extends
Extends
Invitation
-householdProfile:Profile
-host.displayName:String
-sentDate:int
-acceptDecline()
-expiration()
sends
Host
-rankChangeTenant()
-transferHost()
-householdInvitation()
-disbandHousehold()
-removeTenant()
-editExpense()
-task()
Co-Host
-editExpense()
-task()
1
InvitationInbox
-userID:int
-invitationList:Invitation[20]
makes
makes
makes
creates
Household
+householdName:String
-street:String
-city: String
-state:String
-zip:int
+description:String
+availability:bool
-generateProfile()
-householdSearch()
-householdHomepage()
Task
+name:String
+start:int
+due:int
-instructions:String
-assign:Tenant
-period:int
-repeat:bool
Expenses
+expenseName:String
+expenseType:String
+creationDate:int
+paymentDate:int
+cost:float
-expenseSplit()
SupplyRequest
+name:String
+description:String
+creator:String
-edit()
1
ExpenseRecord
+current:bool
-display()
1
ExpenseLog
-display()

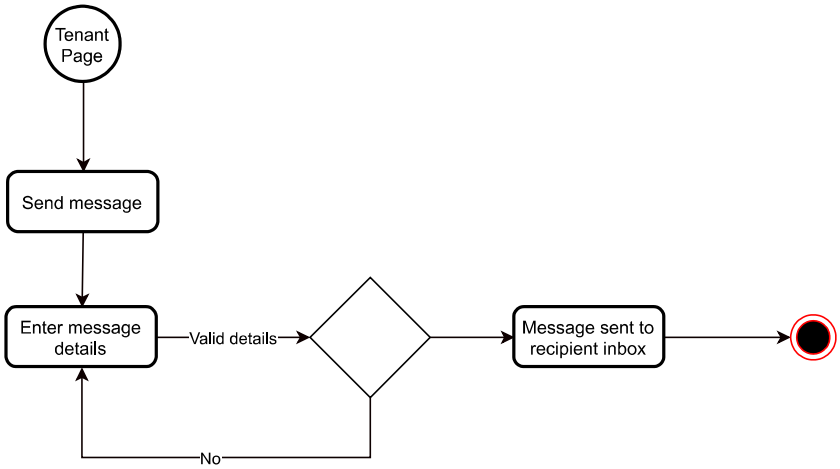

Account Creation
Login Page
Create account
Enter user information
Fail
Verify user information
Successful
Create account
User Diagram
Login Page
Login
Enter user information
Verify user information
Fail
Successful
Logged in
No
Create household
Search for household
Yes
Enter household information
Apply to household
Verify if information valid
Accepted?
Retry?
Reject household creation
No
No
User no longer applied to household
Yes
Household created
User promoted to tenant
User promoted to host

Tenant Diagrams

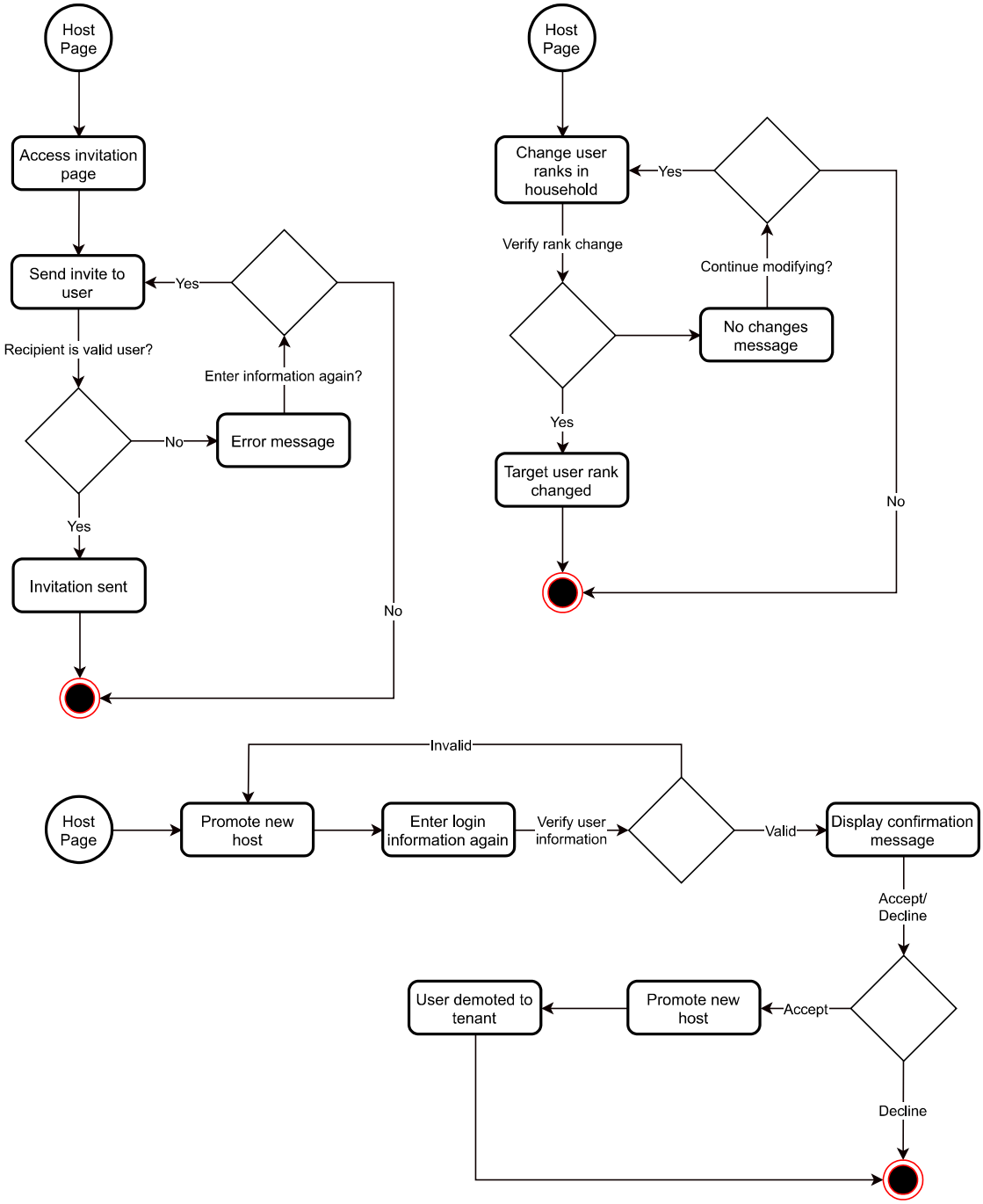


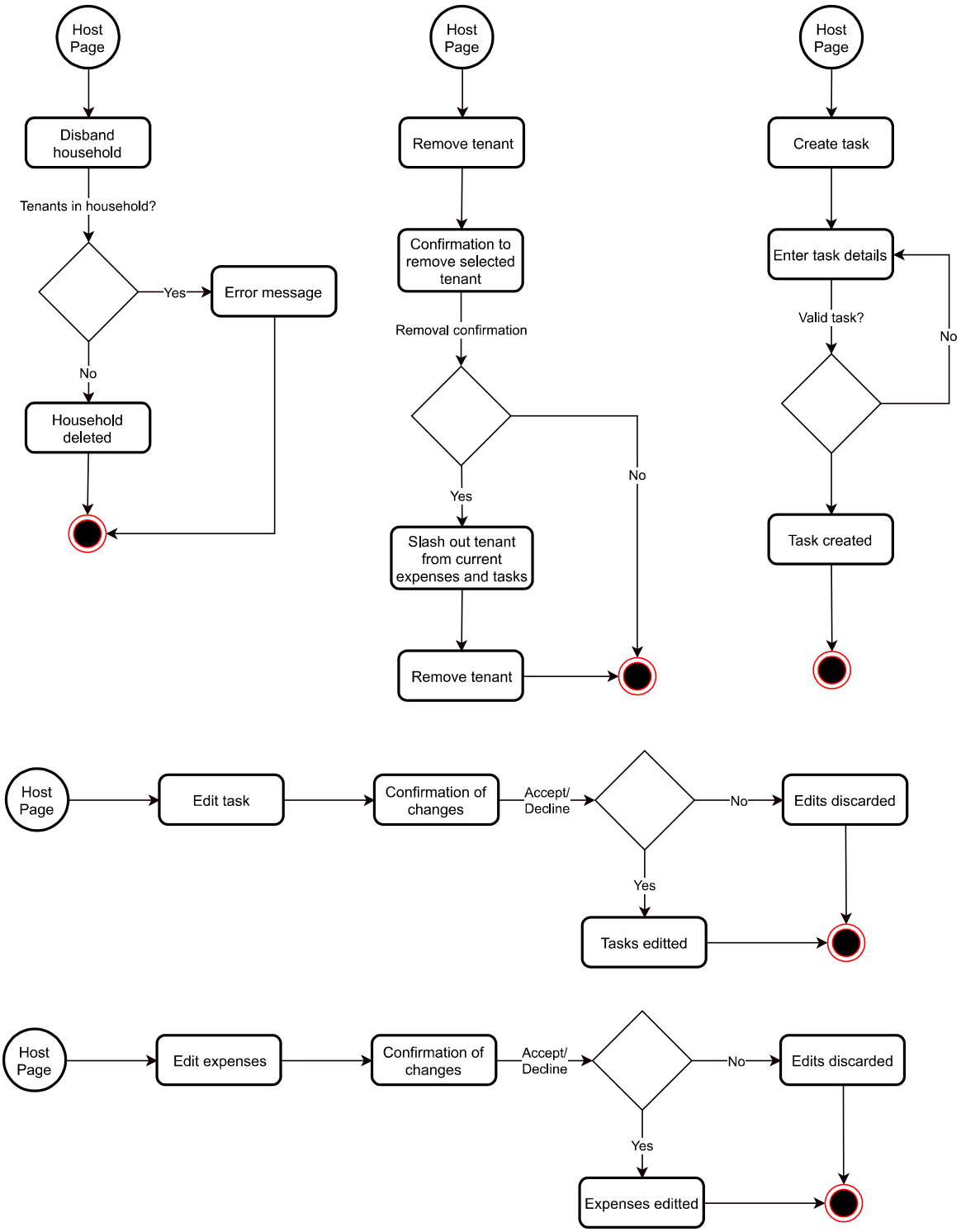
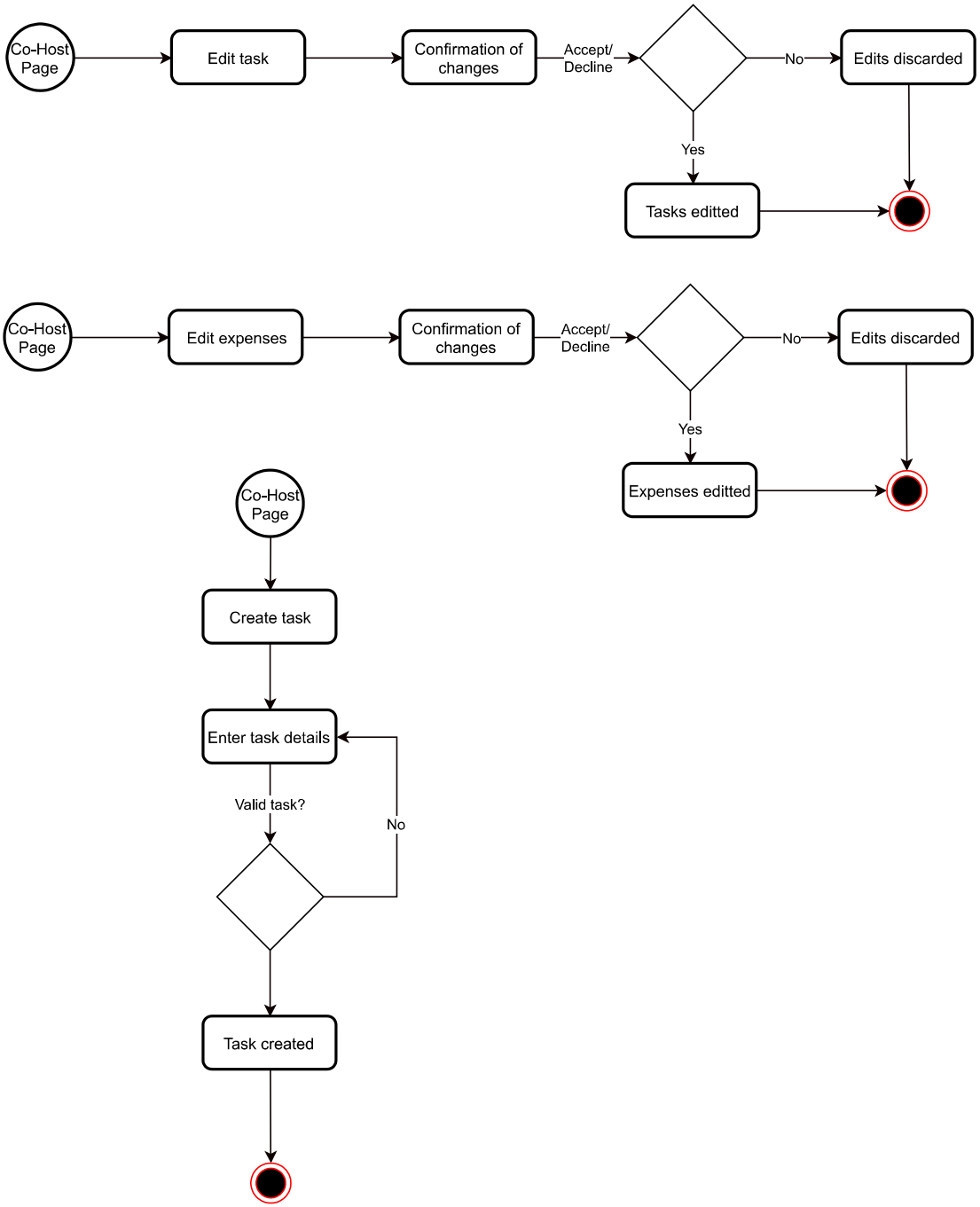






Host Diagram




Host Page
Disband household
Tenants in household?
Yes
Error message
No
Household deleted
Host Page
Remove tenant
Confirmation to remove selected tenant
Removal confirmation
Yes
No
Slash out tenant from current expenses and tasks
Remove tenant
Host Page
Create task
Enter task details
Valid task?
No
Task created
Host Page
Edit task
Confirmation of changes
Accept/ Decline
No
Edits discarded
Yes
Tasks editted
Host Page
Edit expenses
Confirmation of changes
Accept/ Decline
No
Edits discarded
Yes
Expenses editted

Co-Host Diagram