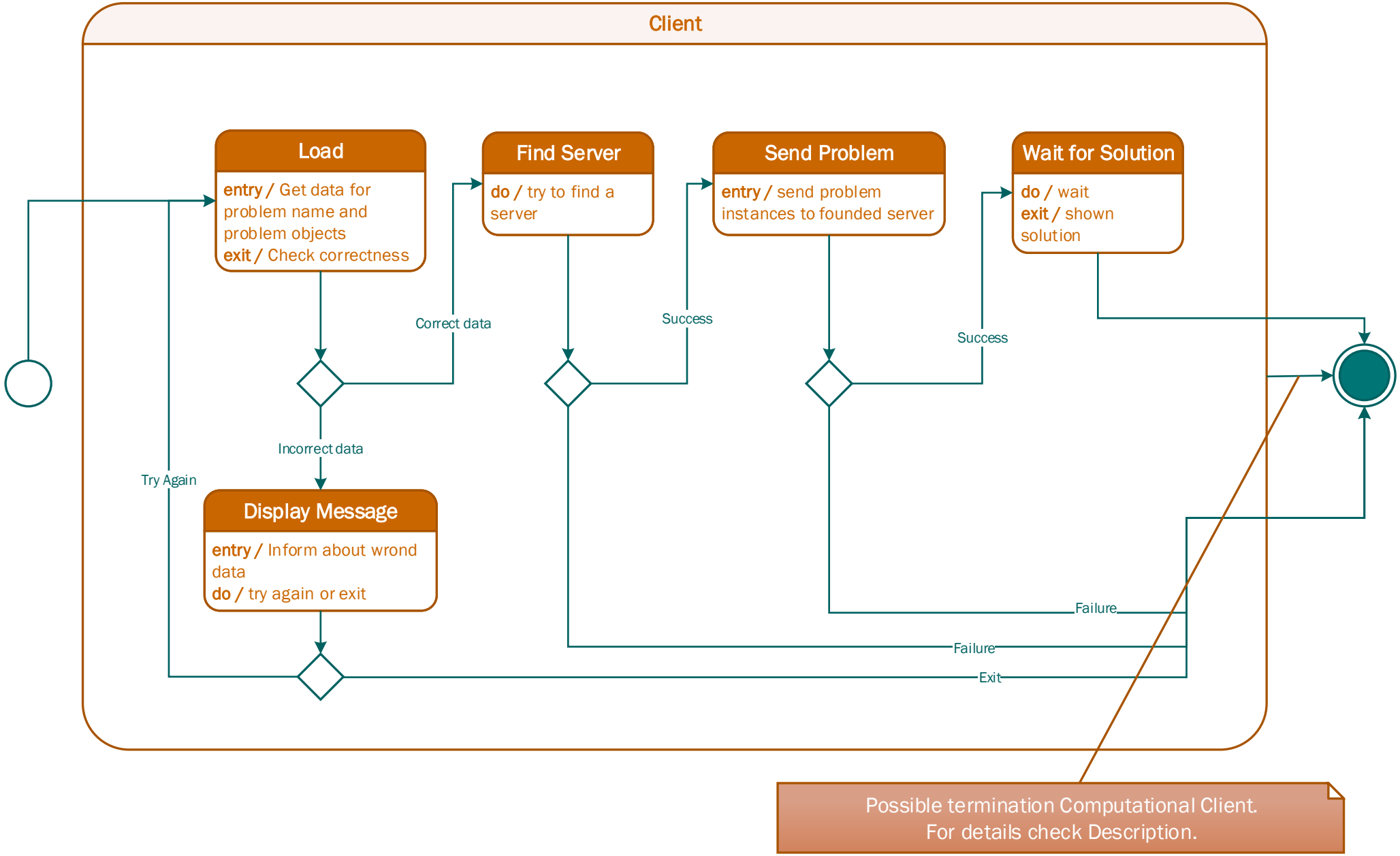
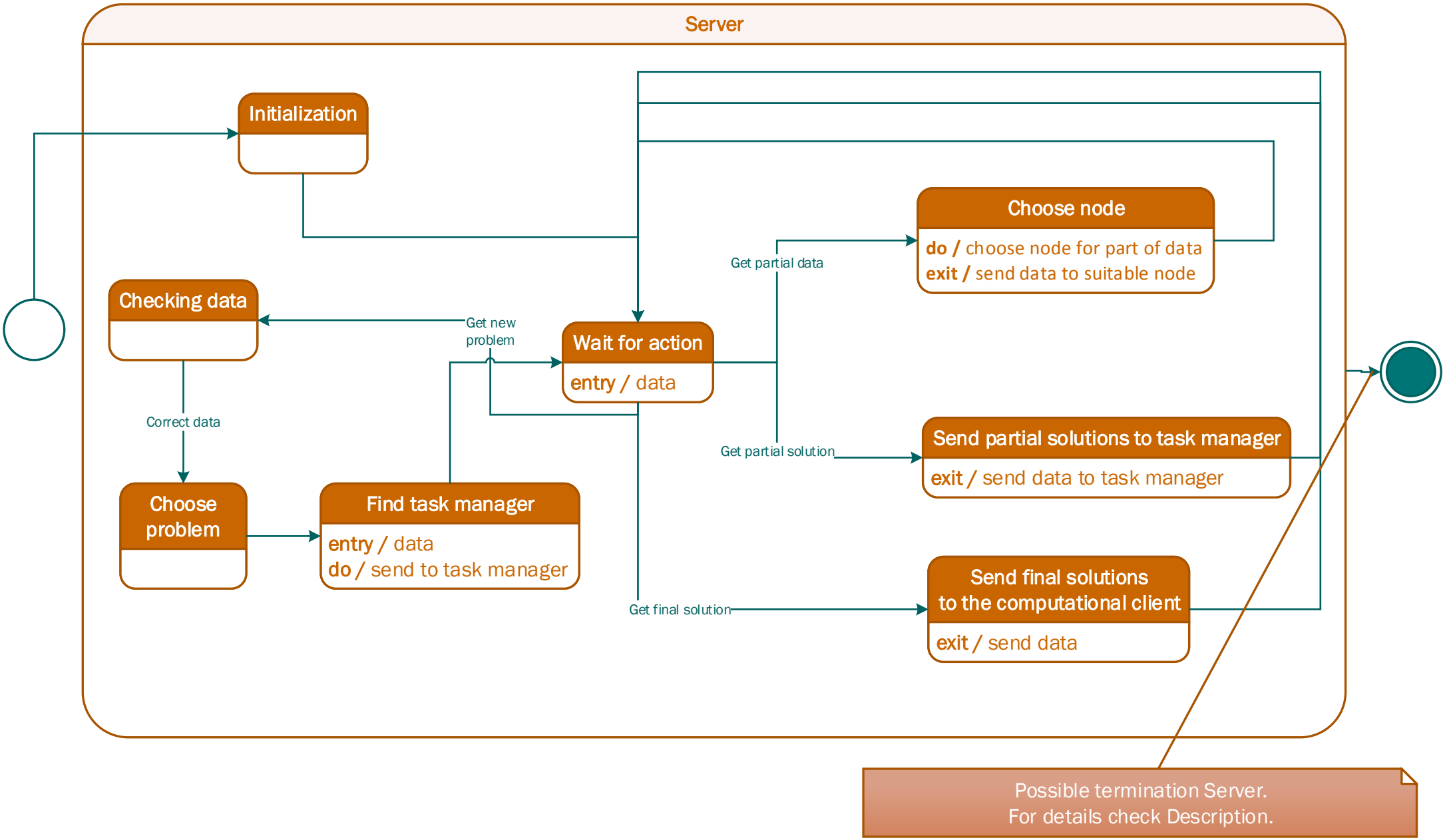
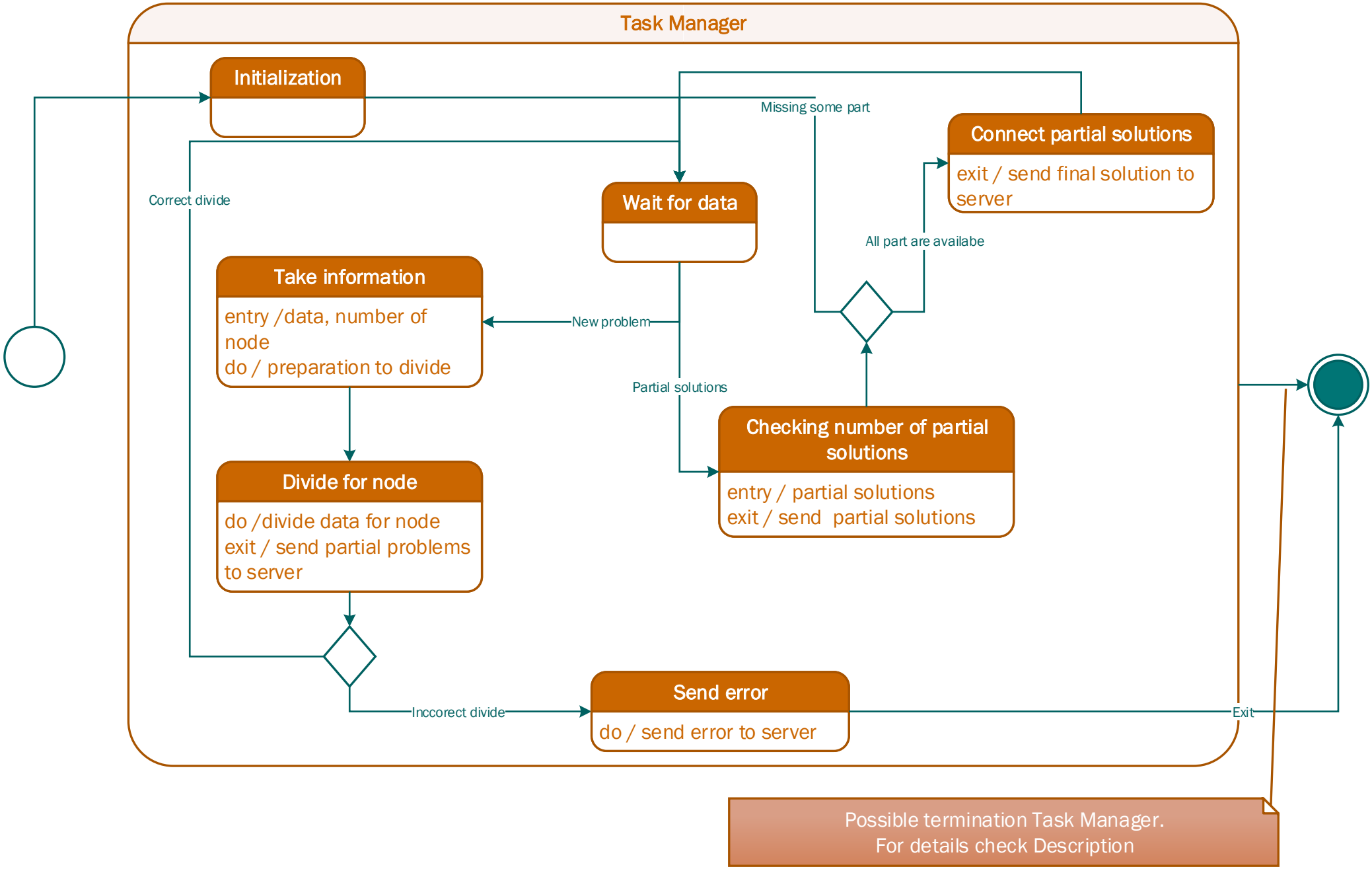

Client
Load
entry / Get data for problem name and problem objects
exit / Check correctness
Find Server
do / try to find a server
Send Problem
entry / send problem instances to founded server
Wait for Solution
do / wait
exit / shown solution
Correct data
Success
Success
Incorrect data
Try Again
Display Message
entry / Inform about wrond data
do / try again or exit
Failure
Failure
Exit
Possible termination Computational Client.
For details check Description.


Server
Initialization
Choose node
do / choose node for part of data
exit / send data to suitable node
Get partial data
Checking data
Get new problem
Wait for action
entry / data
Correct data
Get partial solution
Send partial solutions to task manager
exit / send data to task manager
Choose problem
Find task manager
entry / data
do / send to task manager
Get final solution
Send final solutions to the computational client
exit / send data
Possible termination Server.
For details check Description.

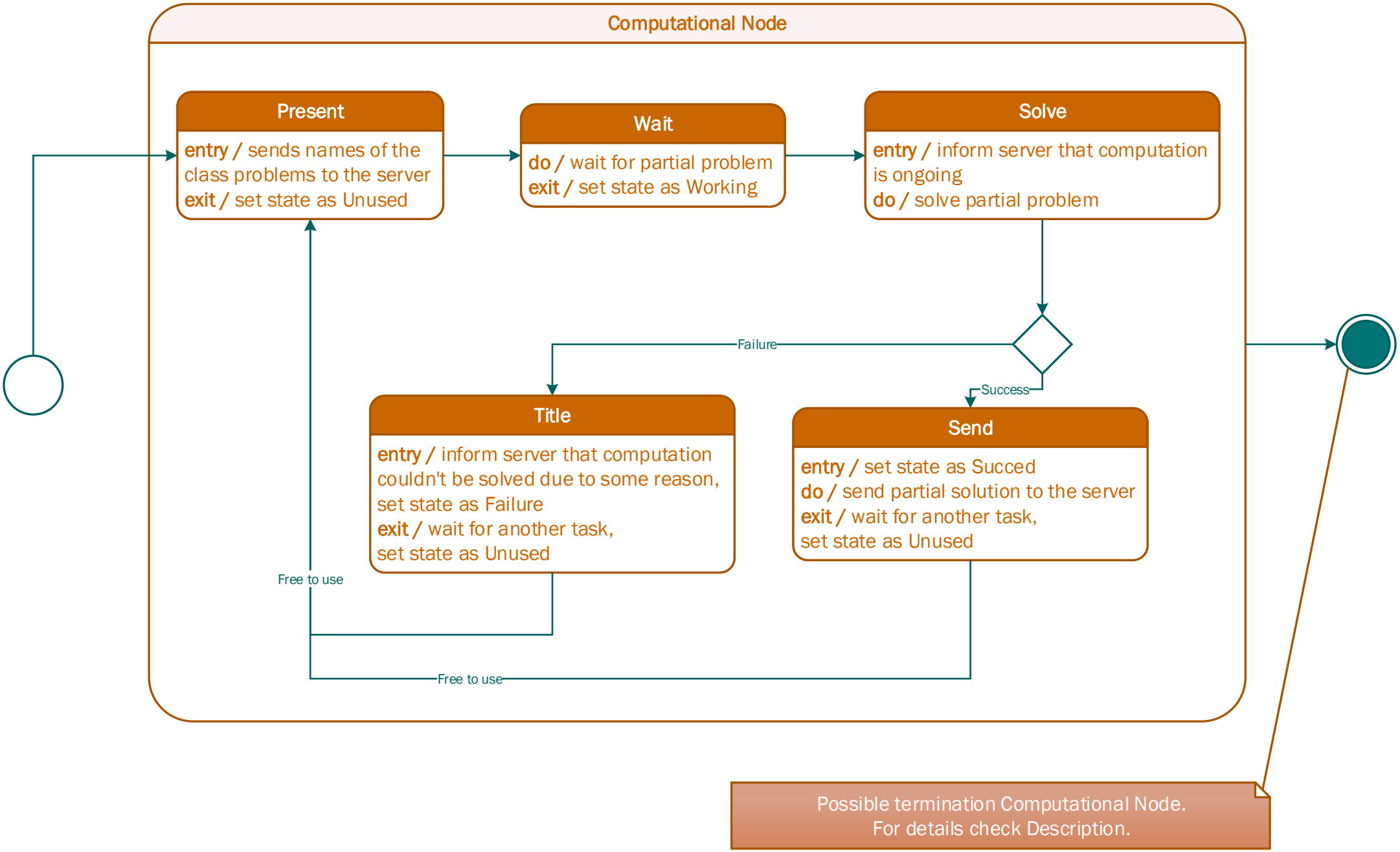
Task Manager

State Diagrams

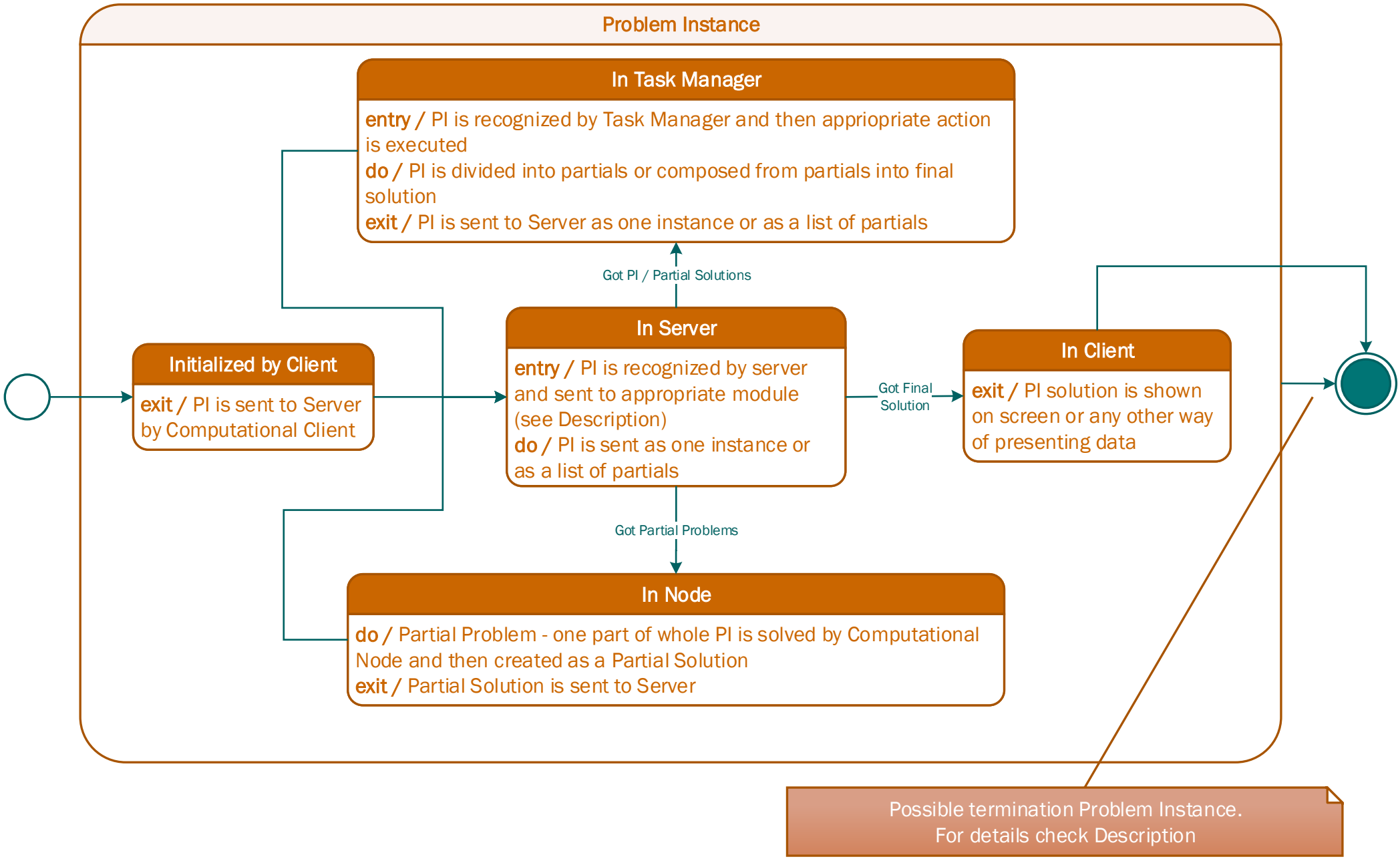


Computational Node

State Diagrams



Problem Instance

State Diagrams

PI = Problem Insance