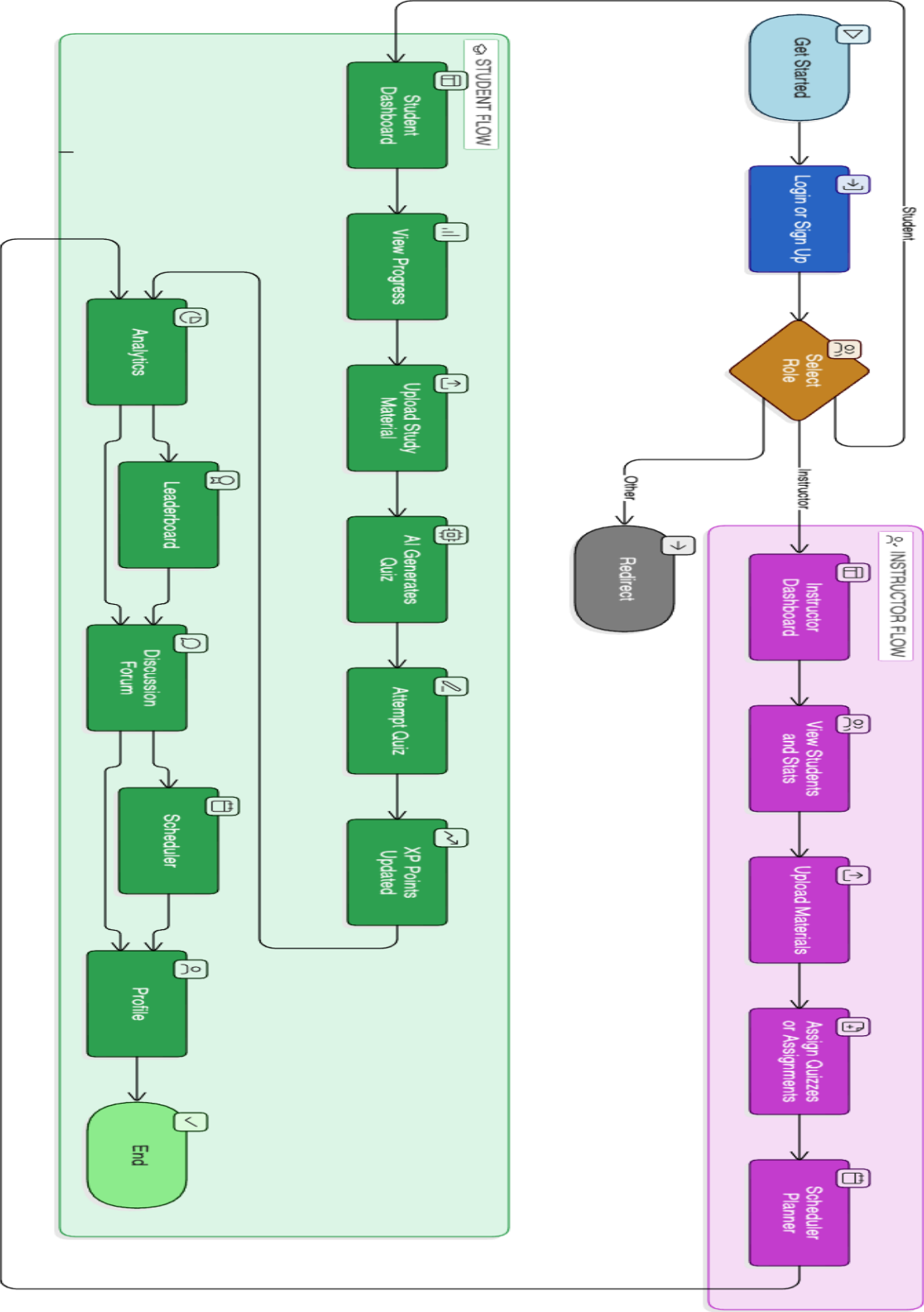Functional flow diagram:

Architecture diagram: