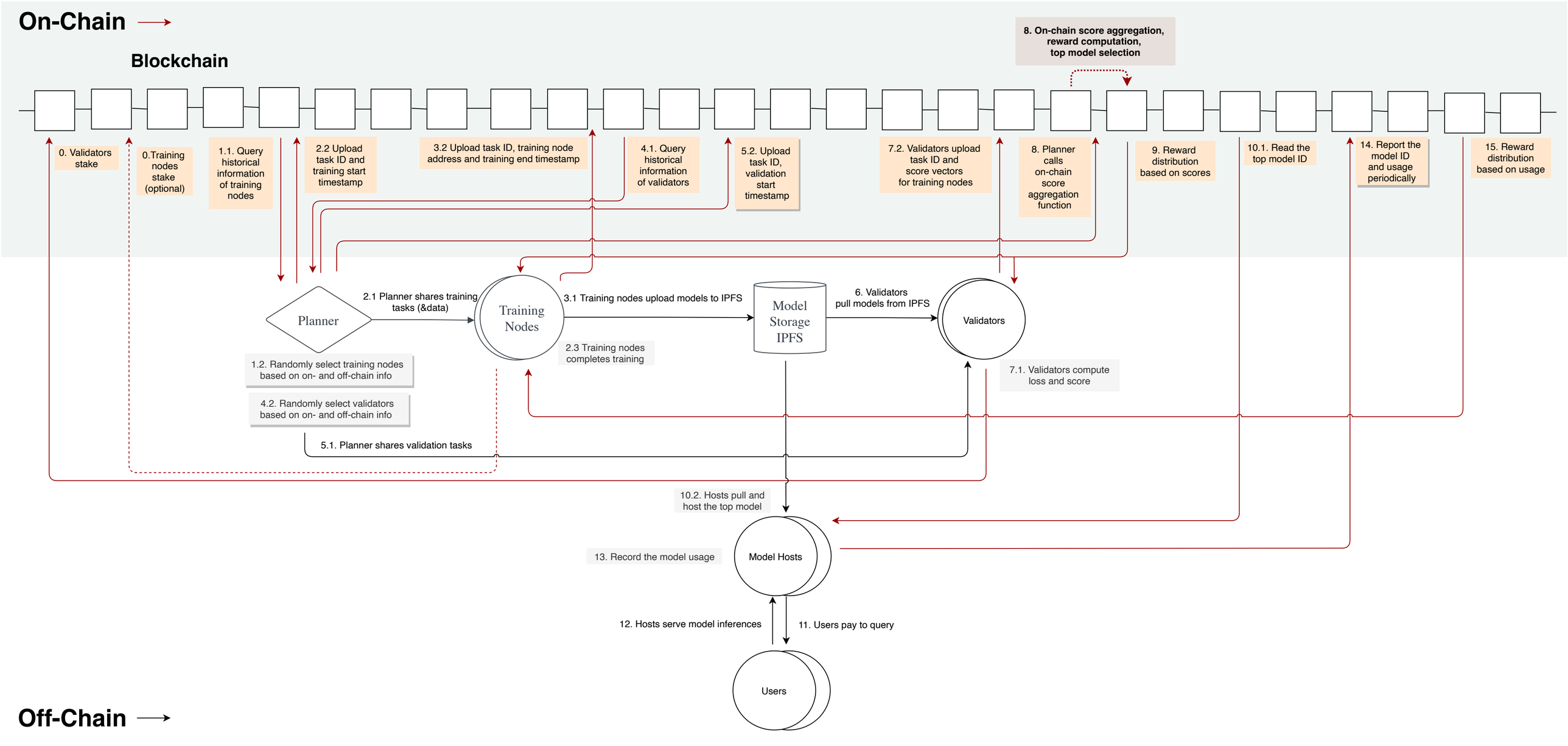
On-Chain
Blockchain
8. On-chain score aggregation, reward computation, top model selection
0. Validators stake
0.Training nodes stake (optional)
1.1. Query historical information of training nodes
2.2 Upload task ID and training start timestamp
3.2 Upload task ID, training node address and training end timestamp
4.1. Query historical information of validators
5.2. Upload task ID, validation start timestamp
7.2. Validators upload task ID and score vectors for training nodes
8. Planner calls on-chain score aggregation function
9. Reward distribution based on scores
10.1. Read the top model ID
14. Report the model ID and usage periodically
15. Reward distribution based on usage
Planner
2.1 Planner shares training tasks (&data)
Training Nodes
3.1 Training nodes upload models to IPFS
Model Storage IPFS
6. Validators pull models from IPFS
Validators
1.2. Randomly select training nodes based on on- and off-chain info
2.3 Training nodes completes training
7.1. Validators compute loss and score
4.2. Randomly select validators based on on- and off-chain info
5.1. Planner shares validation tasks
10.2. Hosts pull and host the top model
13. Record the model usage
Model Hosts
12. Hosts serve model inferences
11. Users pay to query
Users
Off-Chain