

PROJECT 3 – TAPESTRY ALGORITHM

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GROUP MEMBERS

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TAPESTRY ALGORITHM

- Dynamic Node Insertion – To accommodate an increased workload, nodes can be added to a Tapestry Network. To perform this operation, the new node is assigned its ID and then it routes towards a random node selected from the global list of nodes in the Tapestry network. It routes towards the root node using the next hop algorithm and then the root node copies all the entries in its p^{th} -level of routing table to the p^{th} -level of new node's routing table. It then multicasts to all the nodes at p^{th} -level notifying them to add new node in their own routing table. Root node copies entries and notifies nodes in p^{th} -level down to level 0 of its routing table.
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