CLIENT

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| (1) HTTP GET /index.html

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PROXY SERVER

|=> Checks if "index.html" is in cache

|=> If cached: Skip main server and serve from cache ✅

|=> If not cached:

|=> Reads request from client (InputStream)

|=> Parses "GET /index.html HTTP/1.1"

|=> Creates new Socket to main server

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| (2) Forwards HTTP GET request

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MAIN SERVER

|=> Processes GET /index.html

|=> Returns HTML content (e.g., index.html)

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| (3) HTML content response

v

PROXY SERVER

|=> Reads response (InputStream)

|=> Stores it in cache 🧠

|=> Writes response to client (OutputStream)

|

| (4) HTML page

v

CLIENT