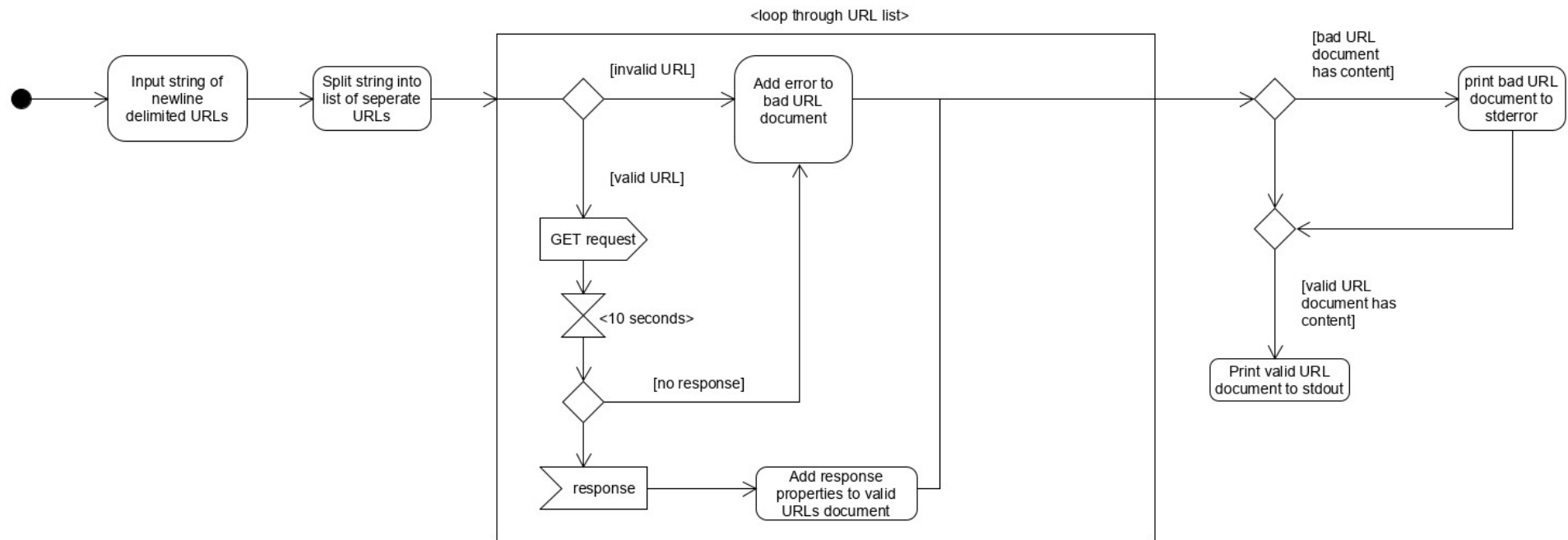- Http and Https Requests to specified URLS
- Linux
- Command-Line app
  - **Input**: Newline delimited strings
  - **Output**: stdout (stderror)
    - Properties (valid): URL, Status code, content length, date-time of response. Properties (Invalid): URL, Error
    - JSON format
- Valid – starts with http and https, Invalid – doesn't start with http or https or contains characters not allowed in URL
- Cope with non-response (time out after 10 seconds)
- Unit tests run without internet – Mock method that actually does request

- Possible methods:
  - makeURLRequests(String newlineDelimitedUrls) - void
  - validateURL(String URL) – returns map of boolean and String

- - - boolean – true if URL starts with http:// or https:// and contains no disallowed characters, false otherwise
    - String – reason why invalid
  - sendGETRequest(String url) – returns response if there is a response in ten seconds, null if not
  - parseResponse(Response) – returns DocumentItemValid with fields populated with response information
  - buildValidURLDocument(List<DocumentItemValid> docItemValid) – return String json formatted document of valid URL items
  - buildErrorURLDocument(List<DocumentItemError> docItemError) – return String json formatted of error URL items
- Possible classes
  - DocumentItemValid(String url, int statusCode, int contentLength, Date date)
  - DocumentItemInvalid(String url, String error)
  - ErrorEnum(NOT_START_HTTP, INVALID_CHAR, TIMEOUT)
  - RequestSender
  - RequestUtil