Socket Programming Project – Python HTTP Server

Name	Major	Checkpoints	Primary	Secondary	Total
			Objective	Objectives	Score
		(50 pts)	(60 pts)	(40 pts)	(150 pts)

Checkpoints (50 points possible):

Checkpoints are graded as full credit (25 points), half credit (13 points), or no credit (0 points)

Description	Points	Score
Checkpoint 1: Server accepts request from client and displays request to screen (or, server does additional HTTP decoding). Server uses argparse for command-line arguments, including port number.		
Checkpoint 2: Server can successfully decode HTTP request from client and send a single reply file given a controlled test environment		
Total (50 pts possible)		

Evaluation Rubric – Primary Objective (60 pts possible):

Website loaded from project server is indistinguishable from site loaded from real server

Description		Score
Server initializes socket subsystem and receives incoming HTTP requests on port 8080	15	
Server decodes incoming HTTP 1.1 requests	15	
Server sends requested file via HTTP 1.1	15	
Veb browsers (Chrome, Firefox, Safari, IE) display website from Python ITTP server that is visually identical to site on "real" server		
Total (60 pts possible)		

Evaluation Rubric – Secondary Objectives (40 pts possible):

Description		Score
Server supports requiredhelp,base, andport	10	
command-line arguments and uses argparse to decode them		
Server supports HTTP response code 404	10	
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Server runs in Python 3 (3.4.x or newer) in Linux environment		
(should be free points here!)		
Server submitted to Canvas site as a .tar.gz archive or .py file		
(should be free points here!)	10	
Total (40 pts possible)		
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Comments: