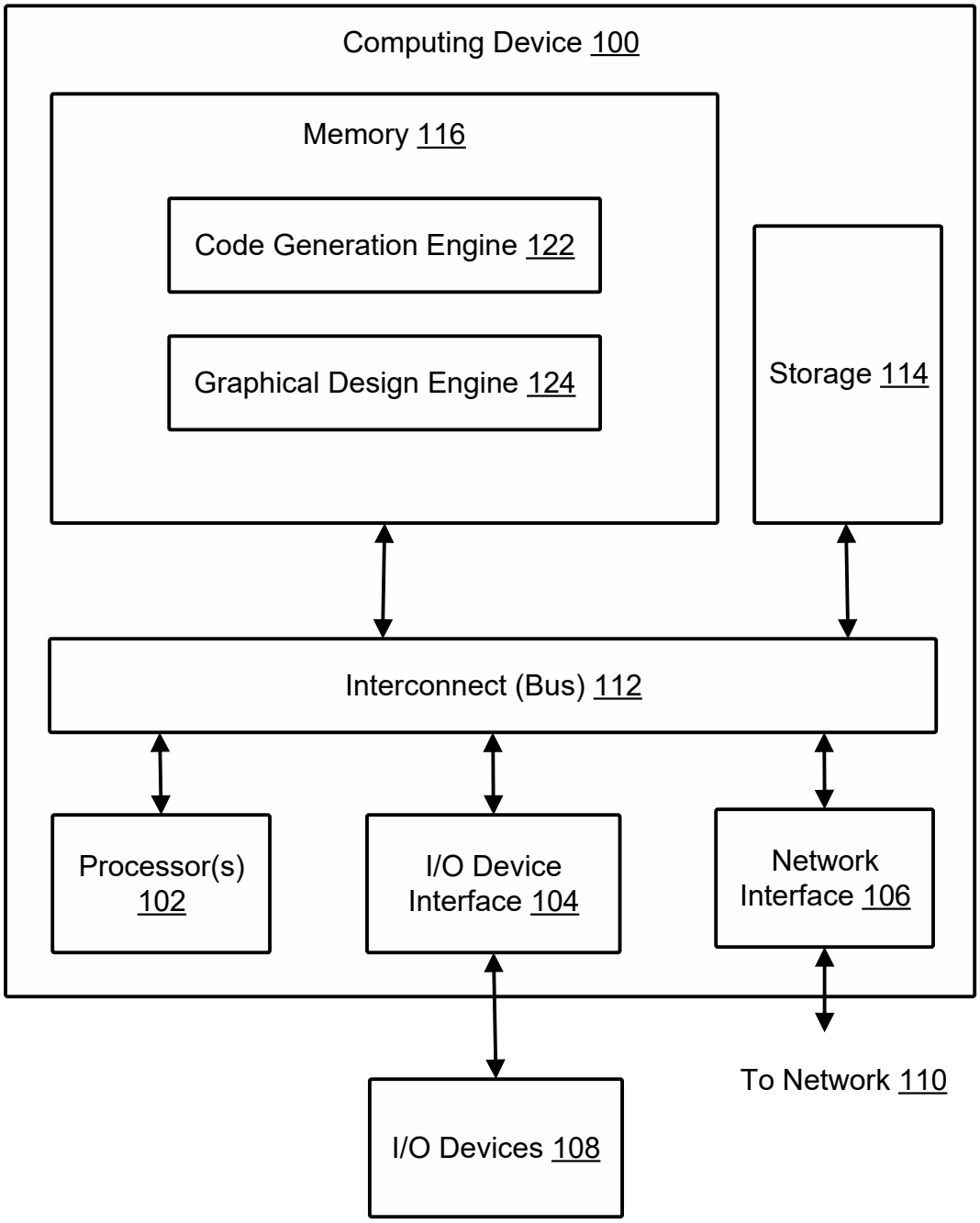
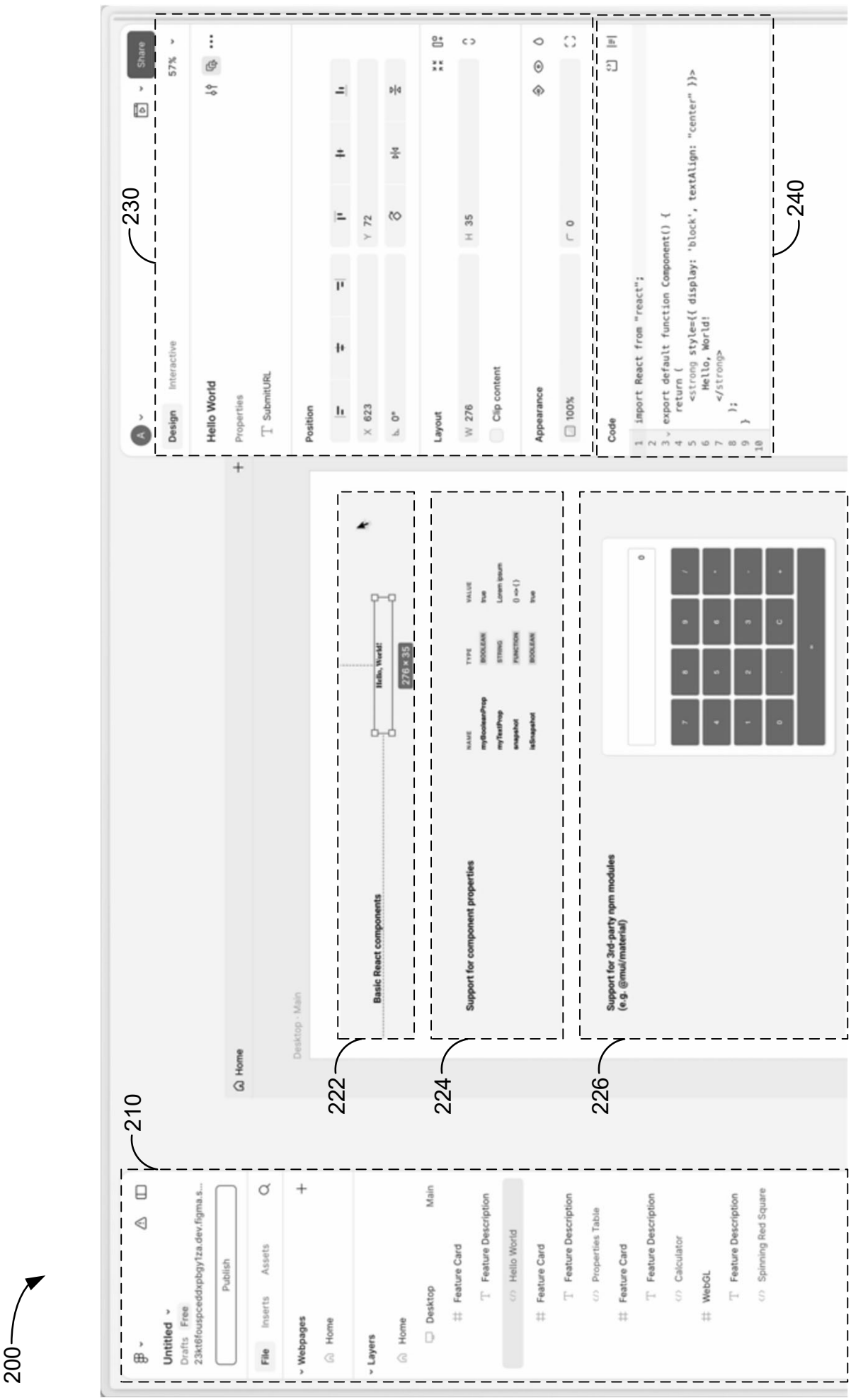

Computing Device 100
Memory 116
Code Generation Engine 122
Graphical Design Engine 124
Storage 114
Interconnect (Bus) 112
Processor(s) 102
I/O Device Interface 104
Network Interface 106
To Network 110
I/O Devices 108

FIG. 1


200
210
222
224
226
230
240
Untitled
Publish
Layers
Webpages
Home
Desktop
Feature Card
Feature Description
Hello World
Properties Table
Calculator
WebGL
Spinning Red Square
Basic React components
Support for component properties
Support for 3rd-party npm modules
(e.g. @mui/material)
Design
Interactive
Hello World
Properties
SubmitURL
Position
Layout
Appearance
Clip content
Code
import React from "react";
export default function Component() {
return (
<strong style={{ display: 'block', textAlign: "center" }}>
Hello, World!

);
}

FIG. 2

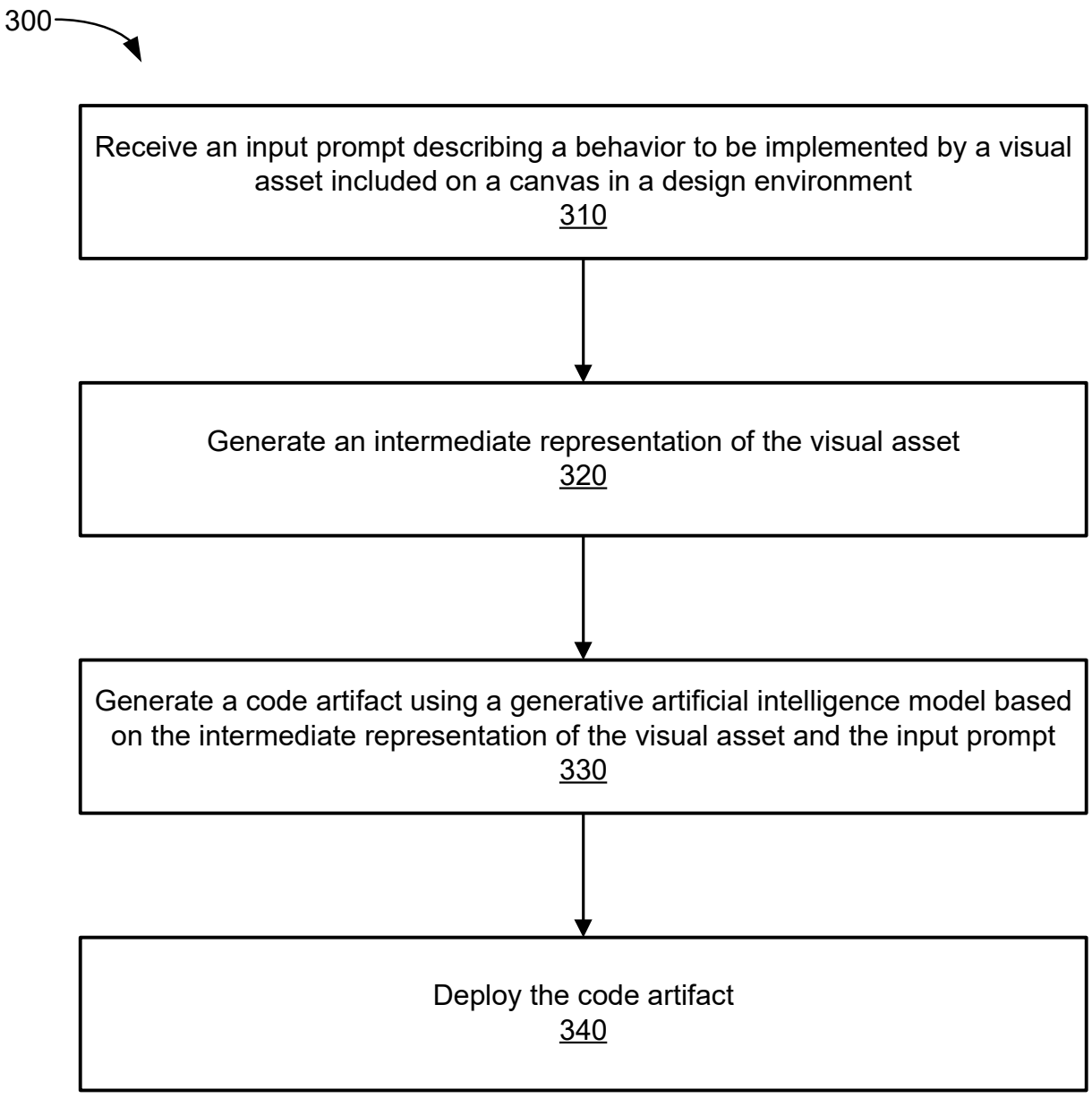

300
Receive an input prompt describing a behavior to be implemented by a visual asset included on a canvas in a design environment
310
Generate an intermediate representation of the visual asset
320
Generate a code artifact using a generative artificial intelligence model based on the intermediate representation of the visual asset and the input prompt
330
Deploy the code artifact
340

FIG. 3

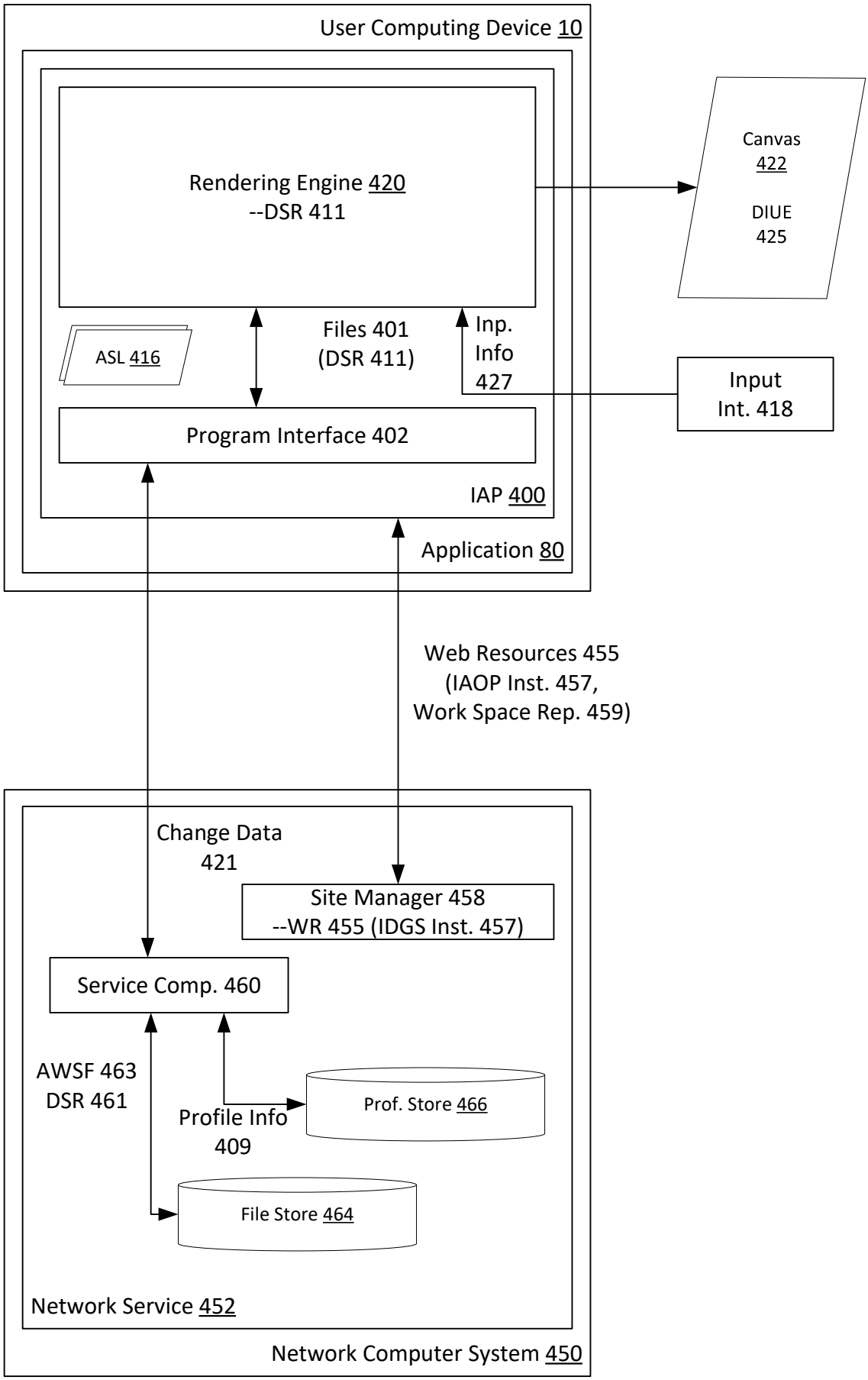

User Computing Device 10
Rendering Engine 420
--DSR 411
Canvas
422
DIUE
425
ASL 416
Files 401
(DSR 411)
Inp.
Info
427
Input
Int. 418
Program Interface 402
IAP 400
Application 80
Web Resources 455
(IAOP Inst. 457,
Work Space Rep. 459)
Change Data
421
Site Manager 458
--WR 455 (IDGS Inst. 457)
Service Comp. 460
AWSF 463
DSR 461
Profile Info
409
Prof. Store 466
File Store 464
Network Service 452
Network Computer System 450

FIG. 4