```
// Extended processUserRequest function that incorporates
screen context
function processUserRequest(userInput) {
// Get current screen context
const currentContext =
this.contextual_understanding.current_context;
// Track which knowledge domains might be relevant to this
request
let relevantDomains = identifyRelevantDomains(userInput);
// Add relevant domains from context
const contextDomains =
identifyRelevantDomainsFromContext(
 currentContext.app,
 currentContext.activity,
 currentContext.content_type
);
// Merge domain lists without duplicates
relevantDomains = [...new Set([...relevantDomains,
...contextDomains1)1:
// Ensure relevant files are decompressed and available
for (const domain of relevant Domains) {
 // Decompress the knowledge file if needed
 accessfile(domain):
 // Also decompress its cache file
 accessfile(`${domain}_cache`);
```

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// Create a context-enriched version of the user input
const enriched input = {
 text: user input,
 context: {
  app: currentContext.app,
  activity: currentContext.activity,
  content_type: currentContext.content_type,
  screen_elements: currentContext.screen_elements,
  recognized_text: currentContext.recognized_text
 }
};
// Process the request using the cognitive map algorithm,
with context
const response = applyAlgorithmWithContext(enrichedInput,
relevantDomains):
// After processing, compress files that are no longer needed
if (this.file_management.auto_compress_low_priority) {
 setTimeout(compressAllInactive, 10000); // Run after 10
seconds
}
// If the response includes actions that should be taken on the
current app
if (response.contextual_actions &&
response.contextual_actions.length > 0) {
 performContextualActions(response.contextual_actions,
```

}

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currentContext);
}
return response;
}
// Apply the cognitive algorithm while considering screen
context
function applyAlgorithmWithContext(enrichedInput,
relevantDomains) {
// Extract algorithm parameters
const params = this.cognitive_map.params;
// Adjust parameters based on context
const contextAdjustedParams =
adjustParamsForContext(params, enriched Input.context);
// Retrieve knowledge from relevant domains
const domainknowledge = {};
for (const domain of relevant Domains) {
 domainKnowledge[domain] = getfileContent(domain);
}
// Retrieve cache knowledge for synonyms and variations
const cacheKnowledge = {};
for (const domain of relevant Domains) {
 cacheknowledge[domain] = getFileContent(`${domain}
_cache`);
}
```

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// Apply modified algorithm with context
const response = {
 textResponse: "",
 confidence: 0,
 sources: [],
 contextual_actions: []
};
// Calculate subjective perspective proximity with context
influence
const subjectivePerspectiveProximity =
 (contextAd, justedParams.priority_retention) +
 (contextAdjustedParams.evaluation_decisional/
  (contextAdjustedParams.subconscious_disregard * 100)) *
 contextAdjustedParams.subliminal_factor/
 contextAd_justedParams.perspective_proximity_paradox +
 contextAdjustedParams.perspective_of_the_subjective;
// Generate a response based on the calculated cognitive
parameters
// This is where Minnie's unique processing happens
response.textResponse =
generateResponseFromCognitiveProcessing(
 enrichedinput.text,
 enrichedinput.context,
 domainknowledge,
 cacheKnowledge,
 subjectivePerspectiveProximity,
 contextAdjustedParams
);
```

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// Determine confidence based on knowledge coverage and
parameter values
response.confidence = calculateConfidence(
 enrichedinput.text,
 domainknowledge,
 subjectivePerspectiveProximity
);
// Identify any actions that should be taken in the current
context
response.contextual_actions = identifyContextualActions(
 enrichedinput.text,
 enrichedinput.context,
 response.textResponse,
 response.confidence
);
return response;
}
// Adjust cognitive parameters based on current context
function adjustParamsForContext(baseParams, context) {
// Create a copy of the parameters to modify
const adjustedParams = {...baseParams};
// İf in a social media content creation context, adjust for
creativity
if (isSocialMediaApp(context.app) && context.activity ===
"content_creation") {
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adjustedParams.priority_retention *= 0.9; // Slightly lower to
favor novel connections
 adjustedParams.subliminal_factor *= 1.2; // İncrease
subliminal influence for creativity
 adjustedParams.perspective_of_the_subjective *= 1.15; //
Enhance subjective perspective
}
// If in a productivity context, adjust for precision
if (isProductivityApp(context.app)) {
 adjustedParams.priority_retention *= 1.1; // İncrease to favor
established knowledge
 adjustedParams.subconscious_disregard *= 0.8; // Lower to
reduce filtering of information
 adjustedParams.perspective_proximity_paradox *= 1.2; //
Încrease for more balanced perspective
}
// If viewing content rather than creating, adjust for analysis
if (context.activity === "browsing" || context.activity ===
"viewing") {
 ad_justedParams.evaluation_decisional *= 1.15; // Increase
evaluation component
 adjustedParams.perspective_of_the_subjective *= 0.9; //
Reduce subjective influence
}
return adjustedParams;
}
```