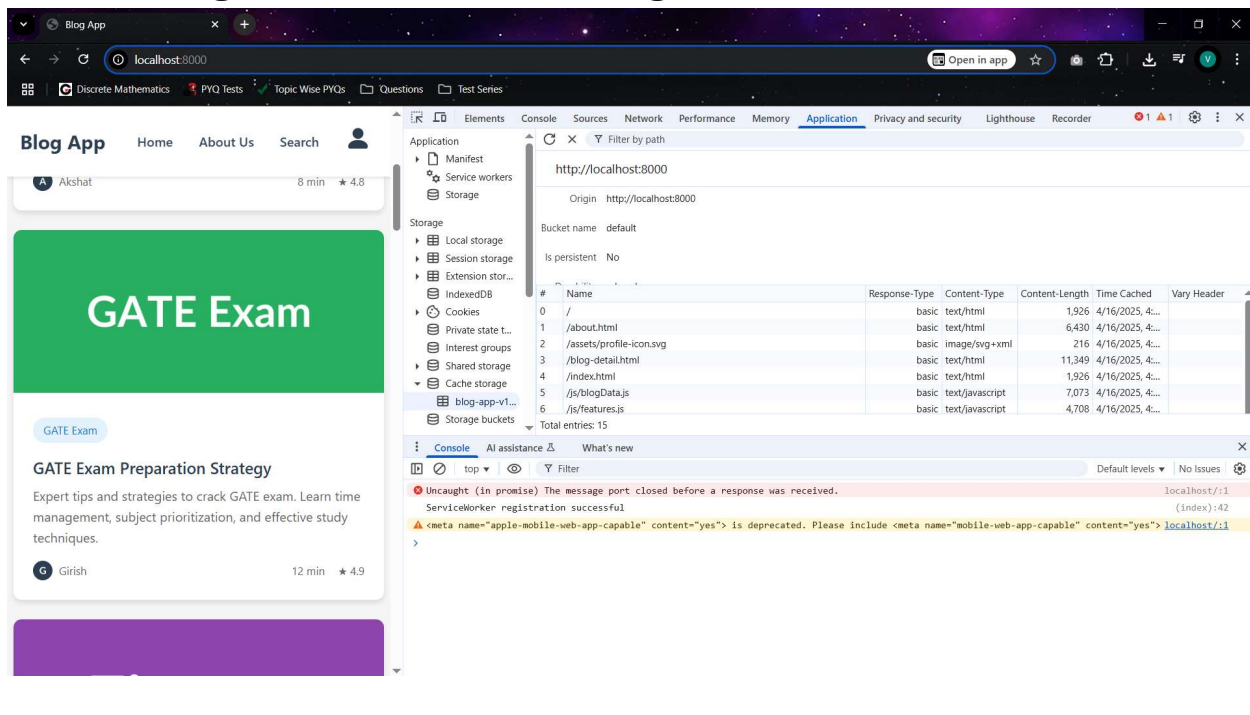


1. Caching Static Assets Using Install Event



2. Handling Fetch Requests

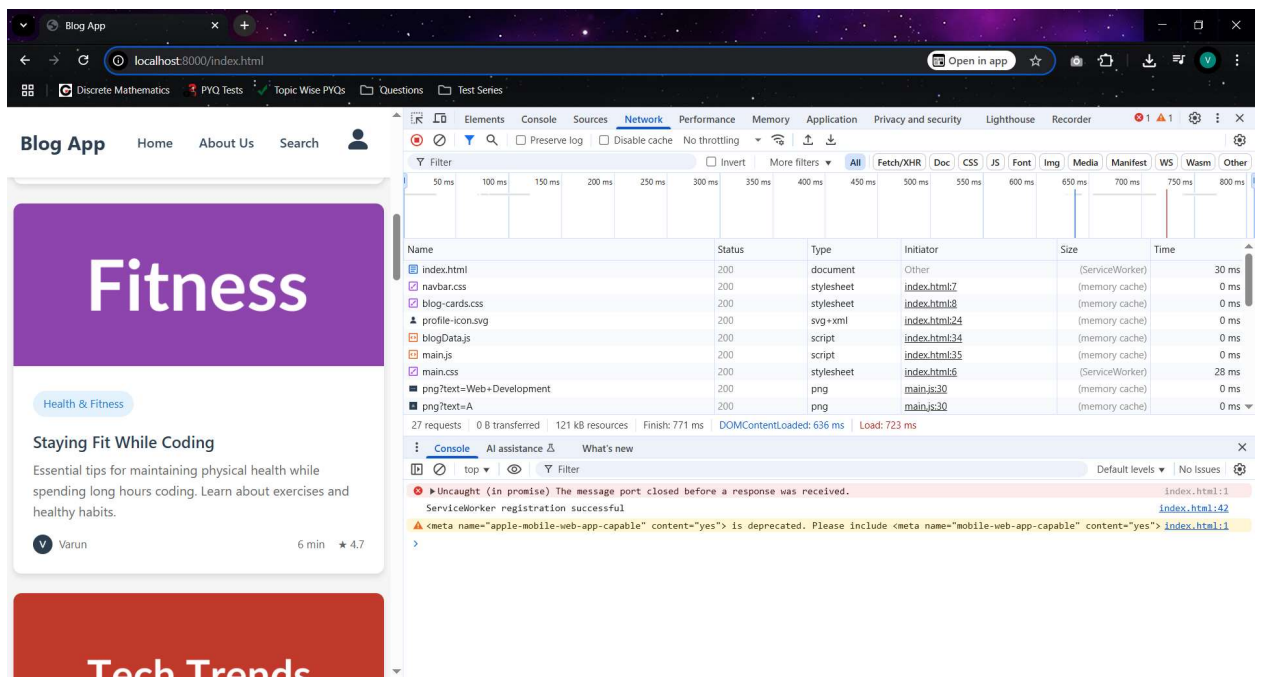
The `fetch` event intercepts network requests. We use this event to implement a cache-first or network-first strategy depending on the URL path.

```
self.addEventListener("fetch", (event) => {
  const url = new URL(event.request.url);
  if (url.pathname.startsWith("/campgrounds")) {
    event.respondWith(
      fetch(event.request)
        .then((response) => {
          const responseClone = response.clone();
          caches.open(CACHE_NAME).then((cache) => {
            cache.put(event.request, responseClone);
          });
          return response;
        })
        .catch(() => {
          return caches.match(event.request);
        })
    );
  }
});
```

```

    );
  } else {
    event.respondWith(
      caches.match(event.request).then((response) => {
        return response || fetch(event.request);
      })
    );
  }
});

```



3. Background Sync (Conceptual Example)

The sync event is used to defer actions until the user has stable connectivity. For an e-commerce app, you could use this to sync cart data or orders.

```

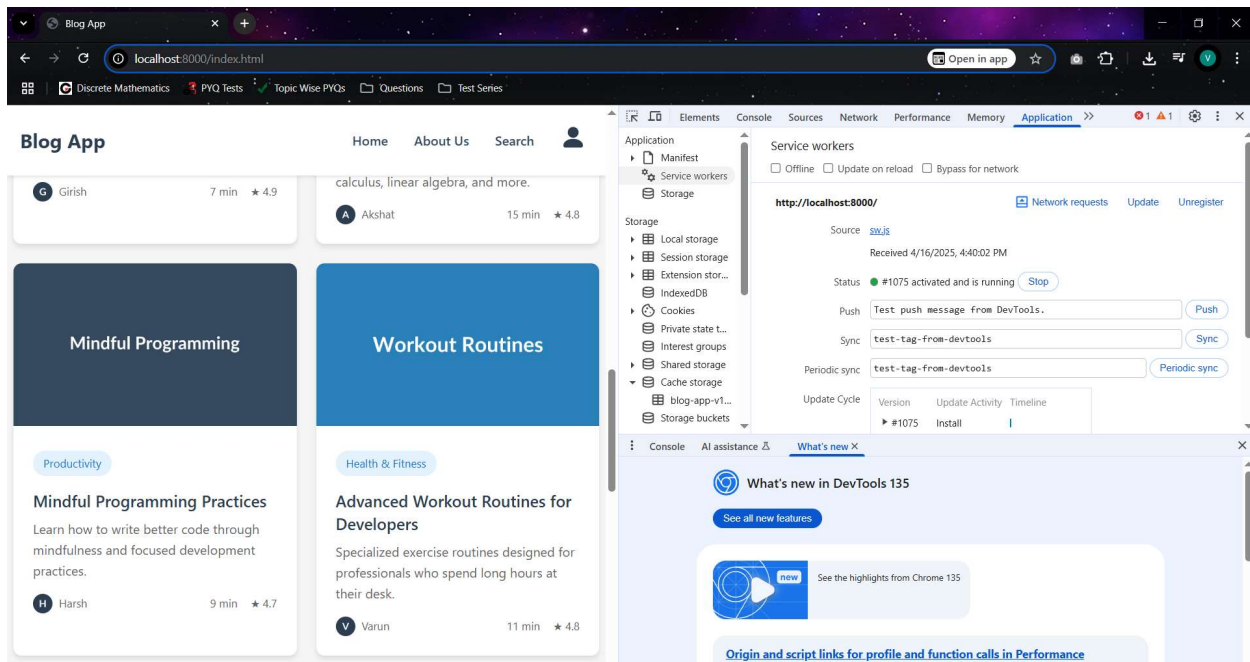
self.addEventListener("sync", (event) => {
  if (event.tag === "sync-cart") {
    event.waitUntil(
      // Logic to sync cart data with server
    );
  }
});

```

4. Push Notifications (Conceptual Example)

The push event is triggered when a push message is received. This could be used to notify users of new deals or order status updates.

```
self.addEventListener("push", (event) => {
  const data = event.data.json();
  const options = {
    body: data.body,
    icon: "/icon.png",
  };
  event.waitUntil(
    self.registration.showNotification(data.title, options)
  );
});
```



Conclusion

Service workers are powerful tools in building resilient and engaging e-commerce PWAs. By handling install, fetch, sync, and push events effectively, you can create a seamless experience for users, even in offline or low-connectivity scenarios.