

Url Mapper

Description

You should implement a web service that converts links between mobile and web applications for 3 page types: Product Detail Page, Search Page, Home Page

Task 1 (Web URL to Mobile URL)

- Write an endpoint that converts web URLs to mobile URLs.
- You must store each request and response in persistent storage.

1. Product Detail Page

Every product in our system has multiple product detail page URLs.

`https://www.oz.com/{BrandName-or-CategoryName}/{ProductName}-p-{ContentId}?boutiqueId={BoutiqueId}&merchantId={MerchantId}`

- Product detail page URL must contain "-p-" text.
- Product detail page URLs must contain contentId which is located after "-p-" prefix. ContentId is long
- URL can contain boutiqueId and merchantId. Both of them are long
- If URL doesn't contain boutiqueId, you shouldn't add CampaignId to mobile url
- If URL doesn't contain merchantId, you shouldn't add MerchantId to mobile url
- Mobile URL and Web URL have differences on CampaignId and boutiqueId. Mobile Url have CampaignId, web URLs have boutiqueId.

2. Search Page

Search page URL must be converted to mobile URL.

- Search pages path must start with "/sr"
- "q" query parameter must be converted to "Query" parameter for mobile Url.

3. Other pages

Other pages, which are not filtered as a search page or product detail page, must be converted to homepage mobile URL.

Task 2 (Mobile URL to Web URL)

- Write an endpoint which converts mobile URL to web URLs.
- You must store these requests and responses in persistent storage.

Sample Request-Response for Task 1

request	response
https://www.oz.com/casio/man-watch-p-1925865?boutiqueId=439892&merchantId=105064	oz://?Page=Product&ContentId=1925865&CampaignId=439892&MerchantId=105064
https://www.oz.com/casio/man-watch-p-1925865	oz://?Page=Product&ContentId=1925865
https://www.oz.com/casio/man-watch-p-1925865?boutiqueId=439892	oz://?Page=Product&ContentId=1925865&CampaignId=439892
https://www.oz.com/casio/man-watch-p-1925865?merchantId=105064	oz://?Page=Product&ContentId=1925865&MerchantId=105064
https://www.oz.com/sr?q=dress	oz://?Page=Search&Query=dress
https://www.oz.com/MyAccount/Favorites	oz://?Page=Home
https://www.oz.com/MyAccount/#/MyOrders	oz://?Page=Home

Sample Request-Response for Task 2

request	response
oz://?Page=Product&ContentId=1925865&CampaignId=439892&MerchantId=105064	https://www.oz.com/brand/name-p-1925865?boutiqueId=439892&merchantId=105064
oz://?Page=Product&ContentId=1925865	https://www.oz.com/brand/name-p-1925865
oz://?Page=Product&ContentId=1925865&CampaignId=439892	https://www.oz.com/brand/name-p-1925865?boutiqueId=439892
oz://?Page=Product&ContentId=1925865&MerchantId=105064	https://www.oz.com/brand/namei-p-1925865?merchantId=105064
oz://?Page=Search&Query=dress	https://www.oz.com/sr?q=dress
oz://?Page=Search&Query=%C3%BCt%C3%BC	https://www.oz.com/sr?q=%C3%BCt%C3%BC
oz://?Page=Favorites	https://www.oz.com
oz://?Page=Orders	https://www.oz.com